

Goodfellow

Serving The Needs of Science and Industry Worldwide

Au service de la Science et de l'Industrie dans le monde entier

Weltweiter Lieferant für Wissenschaft und Industrie

Metals and Alloys
Métaux et Alliages
Metalle und Legierungen

Ceramics
Céramiques
Keramiken

Polymers
Polymères
Polymere

Composites
Composites
Verbundwerkstoffe



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Standard Price List for Polyethylene terephthalate

CONTENTS

Introduction	4
Product Descriptions	5
Hazards Information	10
General Information	11
Order information	12
Company Details	15
Conditions of Sale	16
Polymer	20
INDEX	33

Introduction

Goodfellow is well known as a specialist supplier of small to medium size quantities of metals, alloys, ceramics, polymers and other materials to meet the research, development and specialist production requirements of science and industry worldwide. We realise that "small" means different things to different people, but we consider small to mean any quantity from a few grammes to a few kilos.

Goodfellow offers two distinct services to meet the requirements of our customers:

- The first meets the needs of our customers who need small quantities of products from our standard range of materials within 24-48 hours.
- The second service is for those who require larger quantities or further processing of our standard products or who need an item which falls within our general area of supply expertise.

The range of materials offered by Goodfellow is extensive, as are the forms in which the various products are available. This Catalogue provides a detailed overview of our standard products which are available from stock. Full details of all of these items, including prices and technical information, can be found in our web Catalogue at www.goodfellow.com.

Materials

Metals and Alloys

Goodfellow supplies virtually all of the pure metals from Aluminium to Zirconium as well as a comprehensive range of alloys. Most are available in a variety of forms, including rod, wire and foil. The Catalog details those materials which are available as standard products from stock. Custom-made items are also available, so please contact us if you are unable to identify the item you require.

Ceramics

The ceramic materials offered by Goodfellow have been carefully chosen, and include both the established as well as more recently developed products. All are available as either standard or custom-made products in a variety of forms and sizes. The Catalog details those items which are

available from stock. For ceramic components made to customer drawings, our Ceramic and Glass Division would be delighted to help. Please visit www.goodfellow-ceramics.com for further information.

Polymers

The range of polymers supplied by Goodfellow is broad and includes both the familiar as well as some of the more unusual or recently developed materials. The Catalog details those items which are available from stock; please contact us if you are unable to find the item you specifically require.

Compounds & Intermetallics

Goodfellow can supply aluminides, borides and silicides as well as other intermetallics and compounds. The majority of these items are made to order and the Catalog details those which are available. Please contact us with details of your requirements.

Composites

Some examples of these materials are listed in the Catalog. As some of these are manufactured on a custom-made basis, please contact us with details of your requirements.

Glasses

Goodfellow offers two distinct types of glass products. The first are generally silica-based and transparent. Generally, these products are made to order for customers, so we do not list them in our Catalog, however, they are available through the Goodfellow Ceramic and Glass Division. Please contact us with your requirements.

The second type of glass product is commonly referred to as "metallic glasses" or "glassy metals". In contrast to crystalline metals and alloys with highly ordered atomic structures, these are non-crystalline (amorphous) metals or, more usually, alloys. Our Catalogue details those glassy metals which are available from stock; please contact us if you are unable to find the item you specifically require.

Product Descriptions



Bar

A straight length of rectangular, square or oval section material.

Tolerances

Section dimensions:	≤ 10mm	± 10%
	> 10mm	± 1mm
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / - 1%



Bolt

A threaded pin that can be screwed into a nut or a tapped hole to fasten items together. Bolts are available with different head styles and also in metric and inch-threaded sizes.

Tolerances

See item



Chopped Fibre

Fibres cut into short lengths called cut, staple or chopped fibre.

Tolerances

Fibre diameter:	± 25%
Number of strands:	± 10%
Tex number:	± 10%
Length:	+ 5% / - 1%



Crucible

A vessel in which other materials may be heated or melted, usually at high temperatures.

Tolerances

Height:	± 10%
Inside Dimensions:	± 10%
Outside Dimensions:	± 10%



Fabric

Woven fabrics are made by the regular interlacing of two arrays of yarns at right angles to each other, these being referred to as the warp and weft (see also Non-woven fabric).

Tolerances

Fabric thickness:	± 25%
Number of yarns:	± 10%
Tex number:	± 10%
Size (linear dimension):	< 100mm ± 5mm
	≥ 100mm ± 5%



Fibre

Yarns or tows consisting of several approximately parallel individual filaments, each filament usually being smaller in diameter than a monofilament. Yarns contain a defined number of filaments, typically three to several hundred; tows contain thousands of filaments whose number is only defined approximately. Both are primarily specified by their linear density measured in "tex", the weight in grams of a 1km length of material.

Tolerances

Fibre diameter:	± 25%
Number of strands:	± 10%
Tex number:	± 10%
Length:	+ 5% / - 1%



Film

A non-metallic sheet material with a thickness < 0.5mm.

Tolerances

Thickness:	± 20%
Size (linear dimension):	< 100mm ± 1mm
	≥ 100mm + 2% / - 1%



Flake

Flat, irregularly shaped pieces of material. A maximum flake size is indicated but individual flakes may vary greatly in size.

Tolerances

Dimensions shown are nominal

Product Descriptions



Foam

A low density, permeable structure of cells and continuous ligaments offering a high surface area to volume ratio, and also a high strength to weight ratio. Owing to the nature of this material, dimensions are nominal.



Foil

Thin sheets of pure metal and metal alloys. Due to their fragile nature, some foils are coated on one side with an acrylic or polyester support. Where foils are supported they are indicated in the detailed item description.

Tolerances

Thickness: < 0.010mm ± 25%
 0.01-0.05mm ± 15%
 > 0.050mm ± 10%
 Size (linear dimension): < 100mm ± 1mm
 ≥ 100mm + 2% / -1%



Granule

Pellets of an approximately regular shape. Granules may vary in size and, therefore, the dimensions stated are nominal. In addition, the shape of a granule may vary from item to item.

Tolerances

Dimensions shown are nominal



Honeycomb

A cellular structure similar in appearance to natural honeycomb. Owing to the nature of this material, dimensions are nominal.



Insulated Wire

A single or multiple flexible strand of metal or alloy with an insulating sheath.

Tolerances

Wire diameter: ± 10%
 Length: + 5% / -1%
 Insulation thickness: Nominal values only



Laminate

Layers of material which have been bonded together by the use of heat, pressure and, possibly, adhesive.

Tolerances

Thickness: ± 10%
 Size (linear dimension): ≤ 100mm ± 1mm
 > 100mm + 2% / -1%



Lump

A solid piece of material with no defined shape.

Tolerances

Dimensions shown are nominal



Mesh

Mesh is available as either a woven wire or electroformed product; in all cases, the quoted aperture sizes are nominal. Wire mesh: a material which is woven from metal wires to provide a thin grid with a regular series of holes. Electroformed mesh: a product made by electroplating the mesh geometry through a mask onto a substrate which is subsequently etched away.

Tolerances

Thickness: woven: ± 10%
 electroformed: ± 20%
 Wire diameter: ± 10%
 Size (linear dimension): < 100mm ± 1mm
 ≥ 100mm + 2% / -1%

Product Descriptions



Metallised Film

Film which is coated with a metal. The thickness of the metal is measured and described in terms of the material's specific electrical resistance in ohms per square.

Tolerances

Thickness: $\pm 10\%$
 Size (linear dimension): < 100mm $\pm 1\text{mm}$
 $\geq 100\text{mm}$ $+2\% / -1\%$



Microfoil

An extremely thin sheet of metal or alloy mounted on a permanent support. This support **cannot** be removed without destroying the Microfoil.

Tolerances

Thickness: $\pm 30\%$
 Size: $\pm 20\%$



Microleaf

An extremely thin sheet of metal mounted on a removable support. Microleaf is not available for metals which are too brittle to be free standing.

Tolerances

Thickness: $\pm 30\%$
 Size: $\pm 20\%$



Monofilament

A single strand of a non-metallic material.

Tolerances

Diameter: $\pm 20\%$
 Length: $+5\% / -1\%$



Non-Woven Fabric

Non-woven fabrics are made by methods other than weaving or knitting, the yarns and fibres being held together, often quite loosely, by means other than geometric interlacing. Due to the open and porous nature of this material, all other dimensions are nominal. conventional textile fabrics. Due to the open and porous nature of this material, all other dimensions are nominal.

Tolerances

Size (linear dimension): < 100mm $\pm 5\text{mm}$
 $> 100\text{mm}$ $\pm 5\%$



Nut

Generally a flat piece of material with a threaded hole which can be screwed onto a bolt to fasten items together. Nuts typically have a hexagonal external shape. Nuts are available in metric and inch-threaded sizes.

Tolerances

See item



Powder

Small particles with an approximately defined size range. Those materials described as alloy precursors are not true alloys - they are made by sintering a blend of powders of the component metals to achieve alloying by diffusion. The resultant cake is ground and sieved to the required particle size range. Unless otherwise stated, the particle sizes shown are for guidance only. We do not guarantee either any particular size distribution between the quoted minimum and maximum sizes, or a specific particle shape.

Tolerances

Dimensions shown are nominal

Product Descriptions



Rod

A straight length of circular section material.

Tolerances

Diameter:	≤ 10mm	± 10%
	Polymer	+ 20%/-10%
	Ceramic	+ 20%/-10%
> 10mm	± 5%	
	Ceramic	+ 20%/-10%
	Polymer	+ 20%/-10%
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / -1%



Sheet

Flat material with a thickness > 0.5mm.

Tolerances

Thickness:		± 10%
	Ceramic	± 20%
	Composite	± 20%
	Polymer	± 20%
Size (linear dimension):	< 100mm	± 1mm
	≥ 100mm	+ 2% / -1%



Single Crystal

A material grown as a monocrystal, generally to a specific orientation, dimension and surface finish. It may contain a dopant. Single crystals are usually made to order.

Tolerances

Orientation:	± 3°
Size:	Sizes shown are nominal



Sphere

A regular solid or hollow three-dimensional form in which every cross-section is a circle. Spheres are available with standard or precision tolerances, and can be supplied with different surface finishes depending on the material.

Tolerances

Diameter (standard):	± 5%
Diameter (precision):	see item

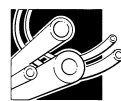


Sputtering Target

A high purity material used as a source for sputtering, a cold vapourisation process in which atoms are physically removed from the target surface by ion bombardment.

Tolerances

Thickness:	± 0.5mm
Size:	± 0.5mm



Tube

A hollow length of material normally circular in section. Most tubes are straight except those made of flexible polymer.

Tolerances

Outside diameter:	≤ 2mm	± 0.05mm
	Polymer	± 10%
	Ceramic	± 10%
≤ 5mm	± 0.1mm	
	Polymer	± 10%
	Ceramic	± 10%
> 5mm	± 5%	
	Polymer	± 10%
	Ceramic	± 10%
Wall thickness:	± 10%	
	Polymer	± 20%
	Ceramic	± 20%
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / -1%



Washer

A thin, flat piece of material with a hole in the middle, used in conjunction with bolts and nuts to distribute the load of a threaded fastener.

Tolerances

See item

Product Descriptions



Wire

A single or multiple flexible strand of pure metal or alloy.

Tolerances

Wire diameter: $\pm 10\%$
Length: $+5\% / -1\%$

Hazards Information

HAZARDS

All materials listed in this catalogue, whatever the quantity supplied, are sold for research or development purposes. We make no warranty that the materials are fit for a particular purpose. In purchasing materials from this catalogue, customers should be aware that there may be hazards associated with their use and in the handling of them. Complete toxicological or hazard investigations are the responsibility of the customer. Ingestion or contact with the human body may be harmful. The responsibility for the safe use of our products rests with the customer. All materials should be handled by qualified personnel familiar with laboratory procedures and who are familiar with the nature of the material and any necessary precautions which should be taken in the handling, use and storage of the products. The customer shall be responsible for the control and use of the products offered in this catalogue whether alone or in combination with other articles or substances or in any other manner whatsoever.

HAZARD SYMBOLS



C

Corrosive

Chemicals which may destroy living tissue when in contact with them.



D

Dangerous when wet

Chemicals which, in contact with water or damp air, evolve highly flammable or toxic gases and vapours in dangerous quantities.



E

Explosive

Chemicals which may react exothermically without atmospheric oxygen, quickly evolving gases, and which under defined test conditions detonate, quickly deflagrate or upon heating explode when partially confined.



F+

Extremely Flammable

Chemicals which when finely divided (small particle size) are liable to ignite spontaneously.



Xn

Harmful

Chemicals which may cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.



F

Highly flammable

Chemicals which will ignite after contact with flame, or which will evolve highly flammable gases in contact with water.



Xi

Irritant

Non-corrosive chemicals which, through immediate, prolonged or repeated contact with the skin or mucous membrane may cause inflammation.



R

Radioactive

Chemicals which will emit ionising radiation without being subject to irradiation. General precautions for Toxic chemicals apply to those of low activity. For chemicals of medium or high activity special regulations apply.



T

Toxic

Chemicals which may cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.



T+

Very Toxic

Chemicals which in low quantities cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.

General Information

Analyses

Typical Analysis :

Where appropriate a typical analysis is given. All figures are parts per million (ppm) by weight unless otherwise stated. It must be emphasised that this data is "typical" and no guarantee is given that the material supplied will conform to these analyses. The compositions shown under alloy headings are generally weight percent. Exceptions are the glassy alloys and the rare earth magnets where the convention of using atomic ratio is followed.

Purity

Purities listed are quoted with respect to total metallic impurities. Typical analyses may give additional information about likely non-metallic impurities.

High Purity

For materials described as High Purity, the actual analysis of metallic impurities will be supplied free of charge. For other items, an actual analysis can be supplied and a charge will be made for the analysis and for the sample used.

If you require an analysis please tell us whether you require analysis of metallic impurities only or metallic and gaseous. Where an analysis is required the shipment of your order may be delayed.

Supports

Some items from our range of foils need to be supported on one side of the foil to enable both you and us to handle these very delicate materials. Two types of support can be used, the choice being governed by the material. Wherever possible we use a temporary support, a permanent support only being used when the material is brittle (for example Chromium or Manganese).

The temporary support is Acrylic, approximately 0.2mm thick. This may be removed by dissolving in 2-Propanone (Acetone).

Our permanent support is Polyester, thickness 0.125mm, which is hot-press laminated to one face of the foil. It **cannot** be removed without destroying the foil.

Microfoil is mounted on a permanent 3.5µm polyester support. This support **cannot** be removed without destroying the Microfoil.

Microleaf is mounted on a specially treated support which allows separation of the metal film from the support. Full instructions on the method of removal are issued with each Microleaf supplied.

Light Tight (LT) & Not Light Tested (NLT)

Light tight (LT) foils are supplied without visible pinholes after examination without magnification. Foils 0.025mm or more in thickness are supplied LT unless otherwise stated.

Foils less than 0.025mm thick are normally supplied Not-Light Tested (NLT), and will normally contain pinholes but may occasionally be free from pinholes. Foils less than 0.025mm in thickness can often be supplied LT but may incur additional charges. Please specify if you require LT foils

Vacuum tight

Vacuum tight foils show no detectable leakage when tested with a helium mass spectrometer with a sensitivity of 10^{-9} atm-cm³.s⁻¹.

Continuous Lengths

If you require material in continuous lengths please tell us when you place your order. Unless otherwise specified, we reserve the right to supply in more than one length.

Technical Data and Information

All information and technical data are given as a guide only. Although every effort has been made to ensure that the information is correct, no warranty is given as to its completeness or accuracy.

Tolerances

For details of our standard tolerances, please refer to the Product Description section. In many cases, closer tolerances are available but may be subject to an extra charge. If you have any special requirements it is important that you tell us at the time of ordering. This includes special tolerances, dimensional uniformity or any other special requirement which you may have (for example edge finish, packaging, labelling etc.). Please indicate precisely what is required and we shall do our best to meet your specification.

Order information

General Information

There are over 70,000 stock packs listed and if you cannot find what you need amongst them, please ask for special sizes, thicknesses, tolerances, dimensions or larger quantities. We are also able to offer many other pure metals, alloys, polymers and ceramics to special order.

Prices

All the prices listed are total (lot) prices for the sizes and quantities listed. Prices are subject to change without notice.

Prices shown include delivery except for those items marked as "special offer" or dangerous goods with transport restriction. They do not include value added tax, any import duties or local taxes.

Transport Restriction

Some of the materials supplied by Goodfellow are subject to special transport restrictions. Additional shipment charges may apply which are dependent on destination. Please check the individual item on our website or contact us for details of the charges.

If you intend to have the material transported or sent onwards please ensure that you are aware of the relevant transport restrictions.

Delivery

Split shipment

All orders are accepted for one shipment on one date to one address. A charge will be made for split shipments made at the customer's request.

Special Analysis, Supports or Tolerances

An extra charge is made for non-standard supports, alternative tolerances and certificates of analysis. The analysis is free of charge for items marked "High Purity".

Cancellations

A charge for cancellation of orders may be made. The amount will depend on the circumstances.

Express Service

An administration charge of £10 will be made for any order received for which same day shipment within the UK is requested.

Shipment

We aim to have all items listed in this catalogue in stock in the quantities and sizes listed. We can only undertake to despatch an order on a particular date. The date of delivery at the customer's address is subject to the normal variations of the delivery service used.

Despatch

Orders will normally be despatched within 48 hours of receipt.

Non delivery

If we have notified you of despatch of goods and you have not received delivery within 7 days, please contact us.

Insurance

All consignments will be insured by us against the usual risks unless we are instructed in writing to the contrary.

Export Restrictions

A UK Government export licence may be required for some items to some destinations. If the item you require needs a special export licence or an end-use statement we will inform you at the time you order.

Materials Handling

Many of our materials are extremely delicate and it is essential every care is taken when handling them. Special attention is drawn to the extreme fragility of Microfoil, Microleaf and thinner and finer materials.

All materials are carefully packed to ensure safe transport of goods to your address. We do not accept responsibility for damage caused by mishandling once the outer transit packaging has been removed.

Terms of payment

Our normal terms of payment are net 30 days from date of invoice. Any alternative terms of payment are to be agreed with us in writing at the time of placing an order. Customers may be asked to pay cash with order or cash against pro-forma invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

Order information

Credit account

We endeavour to keep our costs down and customers are requested to pay our invoices on time. We reserve the right to delay delivery if there are overdue invoices on the account. Accounts which remain unpaid beyond the due date may incur an interest charge at a rate of 2% per month.

Credit card payments

We also accept payment using the following credit and charge cards:

Mastercard, VISA, American Express, DELTA and Switch.

VAT

VAT number: GB 212 8527 79

UK

VAT will be added to the invoice at the rate ruling at the date of invoice. Where a customer is exempt, VAT will be charged unless we receive a copy of the exemption form at the time the order is placed.

EU

Customers registered for VAT who provide their local registration number will not be charged UK VAT.

Customers who are exempt from VAT will not be charged UK VAT provided we are given a copy of their exemption form at the time the goods are ordered.

Customers not registered for VAT or who fail to give us their registration number will be charged UK VAT at the current rate.

Export

All exports to countries outside the EU are zero-rated for UK VAT unless the invoice is being paid from within the EU.

Return of goods

We will only accept return of goods provided we are contacted BEFORE the goods are returned. When we agree to the return we will issue a Goods Return Number and give instructions for the method of return of the goods. Goods will not be accepted for return without a valid Goods Return Number. Due to the nature of some of our materials, it is imperative that you check any possible transport restrictions with your proposed freight company.

Claims

Great care is taken during manufacture and packing and all items are carefully inspected before shipment. Any claim in respect of short delivery, incorrect material or defective quality must be notified to us in writing within three days of delivery. Please retain ALL packaging for our inspection. Our liability for any such claim shall not exceed the cost of replacement of the goods free of charge, or crediting the customer with the invoice value thereof.

Goods ordered in error

We do not accept responsibility for customers' errors in ordering. The amount of credit for returned goods will be at our discretion. Where we accept returned goods a restocking charge will be made.

Conditions of sale

All orders, contracts and quotations are subject to our standard terms and conditions of sale.

Information and statements provided are indicative only and do not form part of any offer or contract.

Exclusions

We supply materials according to our specification. All conditions warranties and representations regarding the quality, fitness for purpose or state, size, shape, capacity or colour of goods supplied whether expressed or implied by common law or statute or otherwise are hereby expressly excluded. We shall not be liable for any damage direct or consequential arising from the use of goods supplied by us however such damage is caused, nor for delay in delivery.

Law

Customers in the USA: Contracts between Goodfellow Corporation and the customer shall be deemed to be subject in all respects to the laws of the Commonwealth of Pennsylvania, or the United States of America.

Customers in France: Contracts between Goodfellow SARL and the customer shall be deemed to be subject in all respects to French law unless otherwise agreed in writing

Customers in Germany: Contracts between Goodfellow GmbH and the customer shall be deemed to be subject in all respects to German law unless otherwise agreed in writing

Order information

Customers in the UK and all other countries: Contracts between Goodfellow Cambridge Limited and the customer shall be deemed to be subject in all respects to English law unless otherwise agreed in writing.

Copies of our General Terms and Conditions are available upon request or can be downloaded from our websites at www.goodfellow.com or www.goodfellowusa.com.

Company Details

Company Structure

The Goodfellow Group consists of five companies:

Goodfellow Cambridge Limited

Goodfellow was established in the City of London in 1946. The Company now has subsidiary operations in France, Germany and North America with the Group's research laboratories, workshop facilities & central administration located in Huntingdon, England.

Goodfellow Corporation

Established at the same time as our associate company in Germany, Goodfellow Corporation was set up to service the requirements of our customers in the USA.

Goodfellow GmbH

Since 1989, this member of the Goodfellow group of companies has been serving the needs of our German speaking customers within Europe.

Goodfellow SARL

Goodfellow established an operation in France in 1993 to meet the needs of our French-speaking customers in Europe.

Goodfellow (Shanghai) Trading Co., Ltd

Goodfellow established a representative office in Shanghai in 2006, and in 2012 followed this with the creation of a fully-fledged trading company, servicing the research and specialist manufacturing requirements of the Chinese market.

COMPANY DETAILS

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USA
A Pennsylvania corporation
EIN 23-2557381

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Import VAT number DE112610478

Goodfellow (Shanghai) Trading Co., Ltd

Room 803, Centro Build, No. 568 Hengfeng Road
SHANGHAI
200070
The People's Republic of China

Conditions of Sale

1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:-

- "Buyer" the individual firm company or other party from whom an order to supply Goods and/or Services is received by the Seller;
- "Conditions" the standard terms and conditions of sale of the Seller as set out herein and includes any additional terms and conditions of sale agreed in writing by the Seller;
- "Contract" a contract for the Supply of Goods and/or Services by the Seller to the Buyer;
- "Date of Delivery" the date on which delivery of the Goods or Services takes place pursuant to Condition 7;
- "Goods" the goods which the Seller is to supply (or, in relation to Condition 11, the goods in respect of which the Seller is to provide Services) under the Contract and includes any of them or any part of them and where the context so admits includes raw materials, processed materials and/or manufactured products whether processed or manufactured by the Seller or not;
- "Prepayment" a payment to be made by the Buyer pursuant to Condition 6.2 to be used at the Seller's discretion for the purchase of materials and/or towards the costs of labour and other costs relating to the supply of Goods;
- "Recommendations for Use" the recommendations (if any) relating to the storage, handling, application and/or use of the Goods contained in the published literature of the Seller (or, if relevant, a Supplier) or any recommendations made in Writing by an authorised representative of the Seller (or, if relevant, a Supplier);
- "Seller" Goodfellow Cambridge Limited and any subsidiary or holding company or associate (as such terms are defined in the Companies Act 1985 (as amended)) of the said company;
- "Services" the work or services or any of them to be provided by the Seller under the Contract;
- "Supplier" any person, firm or company who or which supplies materials to the Seller which make up the Goods which are to be supplied to the Buyer;

1.1.2 words importing the singular number shall include the plural and vice versa, words importing one gender shall include all genders, and words importing persons shall include bodies corporate, unincorporated associations and partnerships

- 1.2 If satisfactory references and information on the Buyer are not provided within seven days of a request therefore by the Seller, or if, following the provision of such information, the Seller is unable to obtain satisfactory trade indemnity or similar cover in respect of its dealings with the Buyer, the Seller may terminate the Contract and the rights and liabilities of the parties shall be the same as if the Contract had been cancelled in accordance with the provisions of Condition 10.2
- 1.3 The seller reserves the right to assign, sub-contract the Contract or any part thereof. The Buyer shall not be entitled to assign the benefit or burden of the Contract without the consent in writing of the Seller
- 1.4 In relation to all obligations of the Buyer under these Conditions, the time of performance is of the essence
- 1.5 The legal construction of these Conditions shall not be effected by their headings which are for convenience of reference only

2 ORDERS

- 2.1 Notwithstanding that the Seller may have given a detailed quotation or estimate either verbally or in writing no order shall be binding on the Seller unless and until it has been acknowledged in writing by the Seller or the Goods are delivered or the Services are provided by the Seller to the Buyer pursuant to the order
- 2.2 In order to avoid duplication of orders the Buyer shall be responsible for ensuring that any confirmation of an order previously placed is prominently marked as being a confirmation and not a new order. The Buyer acknowledges that any order or confirmation of order which is not so marked may be treated and accepted by the Seller as a new order to create a Contract in addition to any Contract arising out of the previously placed order
- 2.3 These Conditions are incorporated in the Contract and together with any matter set out in the Seller's quotation or acceptance/acknowledgement of order contain the entire obligations between the Seller and the Buyer. In the case of any inconsistency between any letter or quotation incorporating or referring to these Conditions and any order, letter or form of contract sent by the Buyer to the Seller, whatever may be their respective dates, the provisions of these Conditions shall prevail. In the event of the Seller entering into the Contract without the Seller having submitted a written quotation or other letter or document incorporating or referring to these Conditions but in circumstances where the Buyer has had prior notice of these Conditions then all Goods or Services supplied shall be subject to these Conditions
- 2.4 No variation of the Contract by the Buyer shall be binding upon the Seller unless made in Writing and signed on behalf of the Seller. In the event of such variation the Buyer shall indemnify and keep indemnified the Seller in full against all loss, which term shall include (but without prejudice to the generality thereof) loss of profit, costs (including the cost of labour and materials), damages, charges and expenses incurred (directly or indirectly) by the Seller as a result of such variation

2.5 Any representations (except fraudulent misrepresentations) or warranties made by or on behalf of the Seller prior to the Contract (whether verbally or in writing) are hereby expressly excluded and shall be of no effect

3 DESCRIPTION

- 3.1 Any figures, statements, descriptions, illustrations, photographs, drawings, weights or any other matters contained in the Seller's catalogues, pamphlets, price lists or advertising literature are not guaranteed to be accurate and are intended merely to represent a general picture of the Seller's products and shall not form part of the Contract nor be regarded as a warranty or representation relating to the Goods or Services
- 3.2 The Seller reserves the right to amend the specification of its products and services from time to time so that the descriptions thereof as set out in its catalogues, pamphlets, price lists or advertising literature may not be identical with those set out in the Seller's quotation and the Buyer is advised to check the specification set out in the Seller's quotation before placing an order

4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

- 4.1 Where goods are supplied to the Buyer's own specification, or where standard goods of the Seller are altered in accordance with the Buyer's instructions the Buyer warrants and undertakes full responsibility for the suitability and fitness of the specification, pattern or design but also that such specification, pattern or design does not infringe any patent, trade mark, registered design, copyright or any other proprietary right of any third party and the Buyer shall indemnify and keep the Seller indemnified in full against any loss, damage or expense whatsoever (including costs) which the Seller may incur in or arising from the performance of the Contract by reason of any infringement of any such patent, trade mark, registered design, copyright or any other proprietary right
- 4.2 The Seller reserves the right to change the Buyer's specification as required to ensure that the Goods comply with any health, safety or other statutory requirement or provision and no such change by the Seller will constitute a breach of contract or impose upon the Seller any liability whatsoever
- 4.3 Unless otherwise agreed in writing, the Seller will be the sole owner of all inventions, formulations, tools, patterns, designs or other similar items and the copyright in all documents and drawings made or produced by it in preparing a quotation for the Buyer or in the course of work on any Contract with the Buyer

5 QUOTATIONS

5.1 The Seller's quotations are provisional in so far as they are subject to alteration by reference to any changes in the price of raw materials, any item to be acquired by the Seller from a third party, rates of wages, other costs of production and any other circumstances beyond the Seller's control taking place between the date of the quotation and the Buyer's placing of an order in respect thereof

6 PRICE

- 6.1 The Seller shall be entitled to adjust the Contract price of the Goods or Services whether before or after the making of the Contract in the event of any variation in the cost to the Seller of supplying the same or any part thereof caused by:-
- 6.1.1 any increase in the cost of materials required by the Seller for the completion of the Contract; or
- 6.1.2 any increase in wages or production and manufacturing costs or other overheads; or
- 6.1.3 any other reason whatsoever beyond the control of the Seller including (but without prejudice to the generality of the foregoing) fluctuations in exchange rates between monetary currencies the action of any government or any other authority or any labour problems
- 6.2 In the Seller's absolute discretion, a Prepayment in respect of the Contract may be required to be paid by the Buyer to the Seller on the terms set out in this Condition. The Prepayment shall be applied as follows:-
- 6.2.1 in the event that the Contract is performed in full by both parties the Prepayment shall be retained by the Seller in reduction of the total price payable by the Buyer under the Contract;
- 6.2.2 in the event that the Buyer is either in default of any of its obligations under the Contract or cancels or suspends the Contract in accordance with Condition 10 the Prepayment shall be set off by the Seller against its proper costs losses or damages arising in connection with the default and/or cancellation or suspension
- 6.3 Unless otherwise stated, the price set out in the Seller's quotation includes the cost of packaging, carriage, and (save as provided in Condition 6.4) insurance. In respect of supplies of Goods in the United States of America, Canada and Japan the price also includes import duties and sales taxes (if any). In respect of supplies of Goods in other countries the price does not include import duties or VAT or sales taxes which will be extra charges based on prevailing rates
- 6.4 Where the Buyer requests a particular means of delivery, the price set out in the Seller's quotation does not include insurance, which is to be arranged at the responsibility of the Buyer.

7 DELIVERY

- 7.1 Delivery of Goods shall be deemed to be effected by the Seller at the following times:-
- 7.1.1 where Goods are collected by or on behalf of the Buyer by its servants or agents, or where Goods are collected in

Conditions of Sale

- accordance with a means of delivery specifically requested by the Buyer, when the same are collected;
- 7.1.2 where delivery of the Goods is to be the responsibility of the Seller, when they arrive prior to unloading at the Buyer's premises;
- 7.1.3 where Goods are sold FOB or CIF, when they pass the ship's rail or are loaded onto the aircraft
- 7.2 Delivery of Services shall be deemed to be effected by the Seller at the time of completion by the Seller of the Services
- 7.3 Whilst the Seller will make every reasonable effort to complete the Contract by the date or dates therein specified for delivery of Goods or provision of Services such date or dates shall only constitute the times by which the Seller expects to effect such delivery and if no time is agreed delivery will be within a reasonable time but the performance of the Contract by the Seller shall not be the essence of the Contract, the Seller's failure to so deliver by the due date or dates shall not constitute a breach of Contract and the Seller shall not in any circumstances be responsible for any direct or consequential loss or damage of any kind whatsoever resulting therefrom. The Seller may wholly or partly suspend deliveries of Goods or provision of Services and the Buyer shall accept late delivery of such Goods or Services unless the Buyer has cancelled the Contract in accordance with the provisions of Condition 10.3
- 8 QUANTITIES INSTALMENTS AND STORAGE**
- 8.1 Where Goods are delivered or Services are by instalment each instalment shall be deemed to be sold under a separate Contract and the party in default in respect of any instalment shall be liable accordingly, but no default in respect of any one instalment shall effect due performance of the Contract as regards other instalments
- 8.2 The Seller will endeavour to deliver the quantity of Goods ordered and every delivery shall be deemed to comply with the order. If there is a surplus or shortage of Goods which is no more than 10% of the quantity specified in the order the Buyer shall be deemed to have accepted the Goods and shall pay for the actual quantity delivered
- 8.3 If Goods or Services are to be delivered by instalments, the Seller shall be entitled to invoice each instalment as and when delivery is made and payment for all delivered instalments shall be due notwithstanding the non-delivery of other instalments or other default by the Seller. Failure by the Buyer to make payment by the due date for any one instalment for whatever reason shall entitle the Seller to suspend deliveries of Goods or provision of Services under the Contract but without prejudice to any other right the Seller may have under any of the other provisions of these Conditions
- 8.4 Notwithstanding that risk shall have passed to the Buyer pursuant to Condition 15 the Seller may in its absolute discretion arrange for storage of the Goods either at the request of the Buyer or as a result of the failure by the Buyer to take delivery of the Goods under Condition 7. The Seller may insure the goods whilst in storage and the Buyer shall indemnify and keep indemnified the Seller in full against all costs, losses, damages and expenses whatsoever arising in connection with the storage provided for hereunder and such costs, losses, damages and expenses will be added to and form part of the price of the Goods
- 8.5 Unless otherwise agreed between the Buyer and the Seller, the Seller shall be entitled in its absolute discretion and without giving prior notice to the Buyer at the expiration of 3 months to sell or otherwise dispose of Goods kept in storage as provided in Condition 8.4
- 9 TERMS OF PAYMENT**
- 9.1 Unless otherwise agreed the price shall be due and payable at the Seller's offices 30 days after the date of the Seller's invoice
- 9.2 If the Buyer does not pay the whole or any part of the price on the required day then the Buyer shall pay to the Seller on request interest on the amount outstanding from the required day until the actual date of payment at the rate of 2% p.a. over the base rate of Barclays Bank plc from time to time in force which shall accrue on a daily basis
- 9.3 Condition 12 shall apply in the event of any alleged defect or failure in or of the Goods or Services and the Buyer shall not delay or refuse to make payment in any such event
- 9.4 The Buyer shall not be entitled to withhold payment of any amount due to the Seller by reason of any disputed claim by the Buyer in connection with the Contract nor shall the Buyer be entitled to set off against any amount payable under the Contract to the Seller any amount which is not then due and payable by the Seller or for which the Seller disputes liability
- 9.5 All payments payable to the Seller under the Contract shall become due immediately upon termination of the Contract despite any other provision.
- 10 SUSPENSION AND CANCELLATION**
- 10.1 If the Buyer shall commit any breach of the Contract and fail to remedy the same within 7 days of receiving the Seller's request in writing so to do or any distress or execution is levied upon any goods or property of the Buyer or the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being an incorporated company) passes a resolution for winding up (otherwise than for the purpose of amalgamation or reconstruction), or a Court makes an order to that effect, or an encumbrancer takes possession, or an administrative receiver or receiver is appointed, of any of the property or assets of the Buyer, or the Buyer ceases, or threatens to cease, to carry on business or is unable to pay its debts within the meaning of section 123 Insolvency Act, 1986, or the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly, the Seller may:-
- 10.1.1 stop any Goods in transit and suspend any further deliveries;

and/or

- 10.1.2 suspend work on the Contract; and/or
- 10.1.3 determine the Contract forthwith and if the Goods or Services, or any part of them have been delivered but not paid for, the price shall become immediately due and payable notwithstanding any previous agreement to the contrary but without prejudice to the Seller's right to any unpaid price for Goods or Services delivered under the Contract and to damages for loss (both direct and consequential) suffered in consequence of such determination
- 10.2 If the Buyer requires cancellation of the Contract this will only be accepted at the sole discretion of the Seller and unless otherwise agreed in writing only upon condition that any costs, charges or expenses (both direct and consequential) incurred by the Seller up to the date of cancellation and the value of all loss or damage (both direct and consequential) incurred by the Seller by reason of such cancellation will be reimbursed by the Buyer to the Seller forthwith. Acceptance by the Seller of any cancellation by the Buyer will only be binding upon the Seller if it is made in writing
- 10.3 In the event of the Seller other than in any of the circumstances set out in Condition 10.1 being prevented or hindered from completing the Contract either wholly or in part in accordance with the terms thereof for any reason whatsoever beyond its reasonable control which, for the avoidance of doubt and without prejudice to the generality of the foregoing, shall include governmental action, war, riot, civil commotion, fire, flood, epidemic, labour disputes (including labour disputes involving the work force or any part thereof of the Seller or Supplier), restraints or delays affecting shipping or carriers, licensing, exporting or importing restrictions, currency restrictions and Acts of God then further performance of the Contract shall be suspended for the period during which the Seller is so prevented provided that in the event of the Contract being suspended for a continuous period of more than 3 months then either party may give the other notice in writing to terminate the Contract forthwith and in such circumstances the Buyer shall pay for all Goods or Services supplied to the date of such termination such payment to be made on or before the last day following the month during which termination was effected. The Seller shall be under no liability whatsoever to the Buyer for any direct or consequential loss or damage suffered by the Buyer as a result of the Seller's inability to perform its obligations under the Contract in these circumstances
- 10.4 The Seller's rights contained in Condition 17 (but not the Buyer's rights) shall continue beyond the discharge of the parties' primary obligations under the Contract consequent upon its termination
- 10.5 The termination of the Contract for whatever reason will be without prejudice to the rights and duties of either party accrued prior to termination
- 11 INSPECTION AND CLAIMS FOR DEFECTS**
- 11.1 The Goods are of a highly specialised nature and must be treated with the utmost care. It is essential that the Buyer checks that they correspond in all respects with the Buyer's requirements. Any discrepancies should be notified to the Seller immediately. The Buyer undertakes to ensure that all Goods are unpacked and handled only by persons qualified to deal with such specialised products, to safeguard against injury to the Goods or to the Buyer's personnel
- 11.2 The Buyer shall inspect the Goods and carry out tests to ensure the Goods conform with the description of the Goods or Services in the Buyer's orders within 7 days of Delivery and whether or not the Buyer carries out such obligation to inspect and test no claims for non-delivery, shortages in quantity of units delivered, defective Goods or Services, non-conformity to description or partial loss or damage to Goods will be accepted by the Seller unless:-
- 11.2.1 they are notified in writing by the Buyer to the Seller within 10 days after the Date of Delivery (in the case of partial loss, damage, non-conforming or defective Goods or Services) or 14 days after the date of the invoice (in the case of non-delivery);
- 11.2.2 the Goods in respect of which a claim is made together with all the relevant packing are preserved intact as received for a period of 35 days from notification of any such claim and the Buyer permits the Seller or its servants or agents full and free right of access to inspect the Goods and investigate the claim; and
- 11.2.3 if the Buyer fails to give the appropriate notice as specified in Condition 11.2.1, the Buyer's claim will be deemed to have been waived and will be absolutely barred
- 11.3 It is in all cases the responsibility of the Buyer to ensure by testing or otherwise that the Goods are fit and suitable for the purposes for which the Buyer requires them in the conditions in which they will be used. The Buyer acknowledges that the Seller shall be under no liability of any description to the Buyer if the Goods prove to be unsuitable for whatever reason for application or use notwithstanding that the Seller may, at the request of the Buyer, have given in good faith technical or other advice in relation to the proposed application or use of the Goods and the Buyer shall indemnify and keep indemnified the Seller in full against any and all liability of any kind arising out of or connected with the application or use of the Goods
- 11.4 Section 3 Sale and Supply of Goods Act 1994 shall not apply
- 11.5 The Seller will not accept the return of Goods in any circumstances unless it has first issued a Goods return number and such number is quoted with the returned Goods
- 12 WARRANTY**
- 12.1 In substitution for all and any other rights which the Buyer might or would have had but for these Conditions and subject to Condition 11,

Conditions of Sale

the Seller shall make good by replacement any failure in the Goods or Services which results from defects in the Seller's materials or workmanship and which appear not later than 2 months after the Date of Delivery and shall replace any Goods or Services which do not conform with the description in the Buyer's order

- 12.2 Notwithstanding the provisions of Condition 12.1, in the case of a claim falling within Condition 12.1, the Seller reserves the right at its sole discretion to credit the Buyer in full the price paid by the Buyer to the Seller
- 12.3 The Seller's liability under this Condition shall automatically cease if:
- 12.3.1 the Buyer has not paid for all Goods or Services supplied under any Contract by the due date or is otherwise in breach of this or any other Contract made with the Seller; or
- 12.3.2 the Seller or its servants or agents are denied full and free right of access to the allegedly defective Goods; or
- 12.3.3 the Buyer has not properly maintained the Goods or has not complied with any Recommendations for Use; or
- 12.3.4 the defect or failure is caused by a breach by the Buyer of its undertakings and warranties contained in Condition 17; or
- 12.3.5 the Buyer has failed to notify the Seller in writing of any defect or suspected defect within 14 days of the same coming to the knowledge of the Buyer
- 12.4 The warranty set out in Condition 12.1 shall be in lieu of any warranties conditions or undertakings whether express or implied by statute, common law or otherwise howsoever which warranties, conditions and undertakings are hereby expressly excluded, except that such exclusions will not apply to any implied condition that the Seller has or will have the right to sell the Goods when the property is to pass
- 12.5 Nothing in these Conditions excludes or limits the liability of the Seller for death or personal injury caused by the Seller's negligence or fraudulent misrepresentation
- 12.6 SUBJECT TO CONDITIONS 12.4 AND 12.5
- 12.6.1 the seller's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation or otherwise, arising in connection with the performance or contemplated performance of the contract shall be limited to the price paid for the goods or services under the contract; and
- 12.6.2 the seller shall not be liable to the buyer for any indirect or consequential loss or damage (whether for loss of profit, loss of business, depletion of goodwill or otherwise), costs, expenses or other claims for consequential compensation whatsoever (however caused) which arise out of or in connection with the contract

13 CONSUMER SALES

- 13.1 Where the Goods are sold under a consumer sale (as defined by the Sale of Goods Act 1979) the statutory rights of the Buyer are not affected by these conditions

14 TITLE TO GOODS

- 14.1 Full legal and beneficial ownership of the Goods shall be retained by the Seller notwithstanding that the risk in the same shall pass to the Buyer at the time of delivery until the Seller has received payment in full in respect of
- 14.1.1 The Goods; and
- 14.1.2 All other sums which become due and owing by the Buyer to the Seller on any account whatsoever
- 14.2 Until ownership of the Goods has passed to the Buyer the Buyer shall hold the Goods in a fiduciary capacity and as bailee of the Seller and shall at all times take proper care of the same and will not obliterate or obscure any identifying mark or their packaging and will keep the Goods separate from any other goods and in such manner that they may be clearly identified as belonging to the Seller and the Buyer hereby grants to the Seller the right to enter on the Buyer's premises at any time during the continuation of the Contract to check that the Buyer is complying with the obligation contained in this Condition. The Buyer will return the Goods to the Seller if it receives a request whether verbally or in Writing so to do prior to payment in full as aforesaid having been made and the Seller will then repay any part of the purchase price it has already received in respect of the Goods less a reasonable amount in respect of its costs and expenses in connection with the Contract
- 14.3 For the purposes of Condition 14.1, the expression "the Buyer" includes any subsidiary or holding company or associate of the Buyer (as such terms are defined in the Companies Act 1985 (as amended))
- 14.4 The Seller will have the right to maintain an action against the Buyer for the price of the Goods notwithstanding that property in the Goods has not been passed

15 RISK AND INSURANCE

- 15.1 The risk in the Goods shall pass to the Buyer at the time of delivery as provided for in Condition 7
- 15.2 Notwithstanding the reservation of title contained in Condition 14, the Buyer shall insure the Goods and/or any products made wholly or partly therefrom for the full amount of the price payable under the Contract with an insurance office of repute from the time of delivery of the Goods until the date title in the Goods passes to the Buyer pursuant to Condition 14.1

16 EXPORT TERMS

- 16.1 In these Conditions "Incoterms" means the international rules for the interpretation of trade terms of the International Chamber of Commerce

as in force at the date when the Contract is made. Unless the context otherwise requires, any term or expression which is defined in or given a particular meaning by the provisions of Incoterms has the same meaning in the Contract

- 16.2 Where the Goods are supplied for export from the United Kingdom then unless otherwise agreed in writing between the Buyer and the Seller

- 16.2.1 the provisions of Incoterms shall (subject to any special terms agreed in writing between the Buyer and the Seller) apply but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.
- 16.2.2 the Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and (save in respect of the United States of America, Canada and Japan) for the payment of any duties and taxes thereon unless payment for these is included in the Contract
- 16.2.3 the Buyer shall be deemed to have satisfied itself that such Goods comply with the safety regulations of any country or state in which the Goods are to be used outside the United Kingdom and the Buyer shall indemnify and keep indemnified the Seller in full for any loss or damage whatsoever which the Seller may incur if such Goods do not comply with such safety regulations

- 16.3 The Goods shall not be used in any country other than that for which the Seller was aware they were originally ordered without the Seller's consent in writing

- 16.4 The Buyer undertakes not to offer the Goods for resale in any country notified by the Seller at or before the time the Buyer's order is placed, or to sell the Goods to any person if the Buyer knows or has reason to believe that person intends to resell the Goods in any such country

17 BUYER'S WARRANTIES

- 17.1 The Buyer warrants to the Seller that:
- 17.1.1 the Buyer will install, operate or otherwise use or store the Goods strictly in accordance with the Recommendations for Use and with all relevant or applicable statutory or other regulations governing the installation, operation, use or storage of the Goods; and
- 17.1.2 any collection vehicle, container, ship or other means of transport provided by the Buyer or any agent of the Buyer will comply with all relevant legislation and regulations relating to health and safety requirements; and
- 17.1.3 the storage and transport facilities and all parts thereof and all equipment used in connection therewith is suitable for storage (both short term and long term) and transport of the Goods and complies with any statute, regulation, bye law or other rule having the force of law and relating to the storage of goods of the nature of the Goods; and
- 17.1.4 the Buyer will ensure that the Goods are stored in conditions appropriate to goods of that nature and will comply with any recommendations as to the storage of Goods notified to it by the Seller from time to time; and
- 17.2 The Buyer shall indemnify and keep indemnified the Seller in full against any claim, loss or damage (including, without limitation, damage to the reputation of the Seller) arising directly or indirectly from any breach of the warranty contained in Condition 17.1

18 SEVERANCE

- 18.1 If at any time any one or more of the provisions or part thereof of these Conditions becomes or is invalid, illegal or unenforceable in any respect under any law or is held by a court to be invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions hereof and the remainder of such provision shall not in any way be affected or impaired thereby

19 JURISDICTION

- 19.1 These Conditions and each and every Contract made pursuant to them shall be governed by and construed in all respects in accordance with the laws of England and the Seller and the Buyer hereby agree to submit to the non-exclusive jurisdiction of the English Courts

20 NOTICES

- 20.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving notice
- 20.2 Any notice given pursuant to clause 20.1 shall be deemed to have been served:
- 20.2.1 if delivered by hand, on the first Business Day following delivery;
- 20.2.2 if sent by post, on the third Business Day after posting if the address of the recipient is in the country of despatch, otherwise on the seventh Business Day after posting;
- 20.2.3 if sent by facsimile transmission, on the first Business Day following successful transmission
- 20.3 In proving service it shall be sufficient proof in the case of a notice sent by post, that the envelope containing the same was properly stamped, addressed and placed in the post and, in the case of facsimile transmission, that it was properly addressed and successfully transmitted
- 20.4 In this Condition 20, "Business Day" shall mean any day other than Saturday, Sunday or any other day which is a public holiday in the place at which the notice is left or to which such notice is despatched

21 WAIVER

Conditions of Sale

21.1 No waiver by the Seller of any breach of any provision of the Contract by the Buyer shall be considered as a waiver of any subsequent breach

of the same or any other provision and the Seller shall not be prejudiced by any forbearance or indulgence granted by it to the Buyer

Polyethylene terephthalate Polyester, PET, PETP

Common Brand Names : Arnite, Dacron, Hostaphan, Impet, Melinar, Melinex, Mylar, Rynite, Terylene, Trevira

General Description: The most common thermoplastic polyester, this polymer is often called just "polyester". This often causes confusion - not only is the chemically similar PBT also a (thermoplastic) polyester, the most common resin system used in GRP is also a polyester system - and also often called just "polyester". (In this latter case, however, the polyesters are chemically unsaturated and are "free-radical polymerised" into a thermoset).

PET is a hard, stiff, strong dimensionally stable material that absorbs very little water. It has good gas barrier properties and good chemical resistance except to alkalis (which hydrolyse it). Its crystallinity varies from amorphous to fairly high crystalline; it can be highly transparent and colourless but thicker sections are usually opaque and off-white.

Applications include bottles and electrical components but it is probably most widely known as the biaxially oriented and thermally stabilised films used for capacitors, graphics, film base and recording tapes etc.

Physical Properties

Density	1.3-1.4 g cm ⁻³
Flammability	HB
Limiting oxygen index	21 %
Radiation resistance	Good
Refractive index	1.58-1.64
Resistance to Ultra-violet	Fair?
Water absorption - equilibrium	<0.7 %
Water absorption - over 24 hours	0.1 %

Electrical Properties

Dielectric constant @1MHz	3.0
Dielectric strength	17 kV mm ⁻¹
Dissipation factor @ 1kHz	0.002
Surface resistivity	10 ⁻¹³ Ohm/sq
Volume resistivity	> 10 ¹⁴ Ohmcm

Thermal Properties

Coefficient of thermal expansion	20-80 x10 ⁻⁶ K ⁻¹
Heat-deflection temperature - 0.45MPa	115 C
Heat-deflection temperature - 1.8MPa	80 C
Lower working temperature	-40 to -60 C
Specific heat	1200 - 1350 J K ⁻¹ kg ⁻¹
Thermal conductivity @23C	0.15-0.4 W m ⁻¹ K ⁻¹
Upper working temperature	115-170 C

Mechanical Properties

Coefficient of friction	0.2-0.4
Hardness - Rockwell	M94-101
Izod impact strength	13-35 J m ⁻¹
Poisson's ratio	0.37-0.44(oriented)
Tensile modulus	2-4 GPa
Tensile strength	80, for biax film 190-260 MPa

Chemical Resistance

Acids - concentrated	Good-Poor
Acids - dilute	Good
Alcohols	Good
Alkalis	Poor
Aromatic hydrocarbons	Good-Fair
Greases and Oils	Good
Halogenated Hydrocarbons	Good-Poor
Halogens	Fair-Poor
Ketones	Good-Fair



Film

Dielectric Strength @25µm thick	kV mm ⁻¹	300
Dissipation Factor @1MHz	%	0.016
Elongation at Break	%	60-165
Initial Tear Strength	g µm ⁻¹	18-54
Permeability to Carbon Dioxide @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	0.2
Permeability to Hydrogen @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	0.4
Permeability to Nitrogen @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	0.004
Permeability to Oxygen @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	0.03
Permeability to Water @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	100
Permeability to Water @38C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	150
Specific Heat	kJ kg ⁻¹ K ⁻¹	1.3
Thermal Conductivity @23C	W m ⁻¹ K ⁻¹	0.13-0.15

ES301005 Thickness 0.0005mm
 Colour Clear

Coil width 315mm
 Condition Biaxially Oriented

Coil	Width 315mm	Quantity
Web Code	Length	1 Reel
777-190-564	0.1 m	EUR 292.00
673-214-694	0.2 m	EUR 342.00
184-119-488	0.5 m	EUR 453.00
055-309-801	1 m	EUR 594.00
505-186-832	2 m	EUR 824.00
092-446-056	5 m	EUR 1502.00

ES301007 Thickness 0.0007mm
 Colour Clear

Coil width 315mm
 Condition Biaxially Oriented

Coil	Width 315mm	Quantity
Web Code	Length	1 Reel
444-702-124	0.1 m	EUR 264.00
681-370-162	0.2 m	EUR 304.00
833-489-721	0.5 m	EUR 392.00
622-574-170	1 m	EUR 508.00
038-111-267	2 m	EUR 702.00
351-465-718	5 m	EUR 1191.00

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Film

ES301009	Thickness 0.0009mm Colour Clear	Coil width 315mm Condition Biaxially Oriented					
Coil	Width 315mm	Quantity					
Web Code	Length	1 Reel					
603-775-194	0.1 m	EUR 213.00					
471-898-850	0.2 m	EUR 242.00					
987-357-104	0.5 m	EUR 306.00					
419-642-625	1 m	EUR 388.00					
455-329-640	2 m	EUR 521.00					
351-361-431	5 m	EUR 846.00					
ES301025	Thickness 0.0025mm Colour Clear	Coil width 315mm Condition Biaxially Oriented					
Coil	Width 315mm	Quantity					
Web Code	Length	1 Reel					
494-569-635	0.5 m	EUR 252.00					
821-200-036	1 m	EUR 310.00					
650-004-385	2 m	EUR 402.00					
250-538-696	5 m	EUR 621.00					
ES301030	Thickness 0.003mm Colour Clear	Coil width 300mm Condition Biaxially Oriented					
Coil	Width 300mm	Quantity					
Web Code	Length	1 Reel					
353-345-584	0.5 m	EUR 242.00					
168-198-817	1 m	EUR 295.00					
024-850-439	2 m	EUR 381.00					
106-310-564	5 m	EUR 588.00					
288-824-136	10 m	EUR 933.00					
103-020-738	20 m	EUR 1725.00					
ES301035	Thickness 0.0035mm Colour Clear	Coil width 490mm Condition Biaxially Oriented					
Coil	Width 490mm	Quantity					
Web Code	Length	1 Reel					
877-596-805	0.5 m	EUR 221.00					
699-608-751	1 m	EUR 274.00					
451-089-966	2 m	EUR 359.00					
386-240-589	5 m	EUR 559.00					
280-069-499	10 m	EUR 836.00					
008-679-669	20 m	EUR 1319.00					
ES301061	Thickness 0.006mm Colour Clear	Coil width 315mm Condition Biaxially Oriented					
Coil	Width 315mm	Quantity					
Web Code	Length	1 Reel					
407-677-453	0.5 m	EUR 119.00					
959-685-351	1 m	EUR 131.00					
960-666-362	2 m	EUR 150.00					
083-287-977	5 m	EUR 193.00					
410-993-062	10 m	EUR 249.00					
374-131-211	20 m	EUR 344.00					
ES301130	Thickness 0.013mm Condition Biaxially Oriented	Colour Clear					
Size	Quantity						
Web Code	Size	1pc	2pcs	5pcs	10pcs	20pcs	50pcs
987-500-211	100 x 100 mm	EUR 76.00	EUR 80.50	EUR 91.50	EUR 107.00	EUR 135.00	EUR 203.00
250-348-688	150 x 150 mm	EUR 79.00	EUR 84.50	EUR 97.50	EUR 115.00	EUR 147.00	EUR 222.00
733-616-394	300 x 300 mm	EUR 87.00	EUR 95.50	EUR 115.00	EUR 141.00	EUR 183.00	
893-576-194	600 x 600 mm	EUR 103.00	EUR 118.00	EUR 151.00	EUR 191.00	EUR 254.00	
Coil	Width 300mm	Quantity					
Web Code	Length	1 Reel					
766-409-685	0.5 m	EUR 110.00					
801-207-977	1 m	EUR 121.00					
150-990-483	2 m	EUR 137.00					
873-808-599	5 m	EUR 173.00					
226-064-773	10 m	EUR 221.00					
258-096-774	20 m	EUR 301.00					
ES301230	Thickness 0.023mm Colour Clear	Coil width 300mm Condition Biaxially Oriented					
Coil	Width 300mm	Quantity					
Web Code	Length	1 Reel					
217-730-773	0.5 m	EUR 111.00					
794-397-439	1 m	EUR 121.00					
754-587-280	2 m	EUR 138.00					
108-877-568	5 m	EUR 175.00					
596-235-338	10 m	EUR 223.00					
665-472-881	20 m	EUR 304.00					

Polymer – Polyethylene terephthalate

Polyethylene terephthalate
Polyester, PET, PETP



Film

ES301238

Thickness **0.038mm** Colour **Clear**
 Grade **Peelable - Heat sealable**

Size	Quantity				
	5pcs	10pcs	20pcs	50pcs	100pcs
Web Code					
685-537-932	150 x 150 mm	EUR 128.00	EUR 137.00	EUR 161.00	EUR 352.00
634-934-761	300 x 300 mm	EUR 153.00	EUR 195.00	EUR 278.00	EUR 523.00
020-232-438	610 x 610 mm	EUR 275.00	EUR 438.00	EUR 764.00	EUR 1738.00

Coil	Web Code	Width 610mm	Quantity
		Length	1 Reel
		1 m	EUR 138.00
		2 m	EUR 191.00
		5 m	EUR 349.00
		10 m	EUR 612.00
		20 m	EUR 1140.00

ES301250

Thickness **0.05mm** Colour **Clear**
 Condition **Biaxially Oriented**

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
Web Code					
346-527-076	150 x 150 mm	EUR 95.50	EUR 106.00	EUR 133.00	EUR 171.00
315-882-298	300 x 300 mm	EUR 109.00	EUR 125.00	EUR 162.00	EUR 212.00
485-285-919	600 x 600 mm	EUR 135.00	EUR 162.00	EUR 220.00	EUR 295.00

Coil	Web Code	Width 600mm	Quantity
		Length	1 Reel
		0.5 m	EUR 148.00
		1 m	EUR 171.00
		2 m	EUR 204.00
		5 m	EUR 275.00
		10 m	EUR 364.00
		20 m	EUR 512.00

ES301302

Thickness **0.075mm** Colour **Clear**
 Condition **Biaxially Oriented**

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
Web Code					
944-405-736	125 x 125 mm	EUR 89.50	EUR 98.50	EUR 121.00	EUR 155.00
052-636-354	254 x 254 mm	EUR 98.50	EUR 111.00	EUR 140.00	EUR 182.00

Coil	Web Code	Width 254mm	Quantity
		Length	1 Reel
		1 m	EUR 135.00
		2 m	EUR 154.00
		5 m	EUR 198.00
		10 m	EUR 255.00
		20 m	EUR 352.00

ES301300

Thickness **0.075mm** Colour **Clear**
 Condition **Biaxially Oriented**

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
Web Code					
088-305-483	150 x 150 mm	EUR 95.50	EUR 106.00	EUR 132.00	EUR 171.00
038-182-800	300 x 300 mm	EUR 108.00	EUR 124.00	EUR 161.00	EUR 212.00
772-856-273	600 x 600 mm	EUR 134.00	EUR 161.00	EUR 220.00	EUR 294.00

Coil	Web Code	Width 600mm	Quantity
		Length	1 Reel
		1 m	EUR 170.00
		2 m	EUR 203.00
		5 m	EUR 274.00
		10 m	EUR 363.00
		20 m	EUR 509.00

ES301301

Thickness **0.075mm** Colour **Grey**
 Condition **Biaxially Oriented**

Size	Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs	50pcs
Web Code						
351-600-494	100 x 100 mm	EUR 91.00	EUR 100.00	EUR 123.00	EUR 157.00	EUR 194.00
862-017-824	150 x 150 mm	EUR 95.50	EUR 106.00	EUR 132.00	EUR 171.00	EUR 214.00
527-064-595	300 x 300 mm	EUR 108.00	EUR 124.00	EUR 161.00	EUR 212.00	
445-529-438	600 x 600 mm	EUR 134.00	EUR 161.00	EUR 220.00		EUR 295.00

Coil	Web Code	Width 914mm	Quantity
		Length	1 Reel
		0.5 m	EUR 159.00
		1 m	EUR 186.00
		2 m	EUR 226.00
		5 m	EUR 310.00
		10 m	EUR 412.00

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Film

ES301400

Thickness **0.1mm** Colour **Clear**
 Condition..... **Biaxially Oriented**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
696-720-005	100 x 100 mm	EUR 83.50	EUR 87.50	EUR 98.50	EUR 114.00	EUR 142.00
992-787-138	150 x 150 mm	EUR 86.00	EUR 91.50	EUR 104.00	EUR 122.00	EUR 154.00
090-635-814	300 x 300 mm	EUR 93.50	EUR 102.00	EUR 121.00	EUR 147.00	EUR 188.00

Coil Web Code	Width 600mm Length	Quantity
		1 Reel
926-399-864	0.5 m	EUR 117.00
799-979-444	1 m	EUR 129.00
997-434-068	2 m	EUR 147.00
679-252-566	5 m	EUR 184.00
906-567-924	10 m	EUR 227.00

ES301401

Thickness **0.1mm** Colour **Black**
 Condition..... **Biaxially Oriented**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
330-957-850	150 x 150 mm	EUR 122.00	EUR 130.00	EUR 148.00	EUR 172.00	EUR 213.00
317-962-977	210 x 297 mm	EUR 131.00	EUR 142.00	EUR 168.00	EUR 201.00	
002-457-868	300 x 300 mm	EUR 135.00	EUR 149.00	EUR 178.00		
010-091-344	600 x 600 mm	EUR 163.00	EUR 188.00			

Coil Web Code	Width 610mm Length	Quantity
		1 Reel
267-501-890	1 m	EUR 190.00
554-072-258	2 m	EUR 221.00
751-621-806	5 m	EUR 283.00
081-317-331	10 m	EUR 418.00
191-239-723	20 m	EUR 718.00

ES301402

Thickness **0.1mm** Colour **Grey**
 Condition..... **Biaxially Oriented**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
824-578-485	100 x 100 mm	EUR 83.50	EUR 87.50	EUR 98.50	EUR 114.00	EUR 142.00
721-971-635	150 x 150 mm	EUR 86.00	EUR 91.50	EUR 104.00	EUR 122.00	EUR 154.00
065-817-411	300 x 300 mm	EUR 93.50	EUR 102.00	EUR 121.00	EUR 147.00	
661-233-343	600 x 600 mm	EUR 109.00	EUR 124.00	EUR 156.00		

Coil Web Code	Width 914mm Length	Quantity
		1 Reel
982-035-528	0.5 m	EUR 123.00
526-168-750	1 m	EUR 138.00
325-718-068	2 m	EUR 160.00
878-525-053	5 m	EUR 204.00
471-607-388	10 m	EUR 287.00

ES301425

Thickness **0.125mm** Colour **Clear**
 Condition..... **Biaxially Oriented**

Size Web Code	Size	Quantity			
		1pc	2pcs	5pcs	10pcs
320-992-721	300 x 300 mm	EUR 104.00	EUR 119.00	EUR 155.00	EUR 205.00
154-597-560	600 x 600 mm	EUR 126.00	EUR 151.00	EUR 206.00	

Coil Web Code	Width 600mm Length	Quantity
		1 Reel
512-330-489	1 m	EUR 148.00
041-308-841	2 m	EUR 174.00
163-609-389	5 m	EUR 229.00
501-187-139	10 m	EUR 295.00

ES301440

Thickness **0.175mm** Colour **Clear**
 Condition..... **Biaxially Oriented**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
359-548-261	150 x 150 mm	EUR 90.50	EUR 97.50	EUR 114.00	EUR 136.00	EUR 174.00
943-535-983	300 x 300 mm	EUR 103.00	EUR 115.00	EUR 142.00	EUR 175.00	
522-956-217	600 x 600 mm	EUR 127.00	EUR 150.00	EUR 196.00		

Coil Web Code	Width 600mm Length	Quantity
		1 Reel
451-170-754	0.5 m	EUR 133.00
396-343-539	1 m	EUR 152.00
542-942-622	2 m	EUR 180.00
867-837-218	5 m	EUR 235.00

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Film

ES301451	Thickness	0.25mm	Colour	Opaque white				
	Condition	Biaxially Oriented	Condition	Printable both sides				
	Size		Quantity					
Web Code		Size	1pc	2pcs	5pcs	10pcs		
762-906-998		210 x 295 mm	EUR 123.00	EUR 148.00	EUR 204.00	EUR 267.00		
ES301450	Thickness	0.25mm	Condition	Biaxially Oriented				
	Colour	Clear						
	Size		Quantity					
Web Code		Size	1pc	2pcs	5pcs	10pcs		
479-650-787		300 x 300 mm	EUR 107.00	EUR 121.00	EUR 151.00	EUR 188.00		
956-349-736		600 x 600 mm	EUR 136.00	EUR 162.00	EUR 215.00			
ES301445	Thickness	0.25mm	Condition	Transparent				
	Condition	Amorphous						
	Size		Quantity					
Web Code		Size	1pc	2pcs	5pcs	10pcs	20pcs	
252-144-755		300 x 300 mm	EUR 116.00	EUR 133.00	EUR 171.00	EUR 225.00	EUR 317.00	
835-673-793		610 x 610 mm	EUR 142.00	EUR 170.00	EUR 229.00	EUR 307.00		
ES301460	Thickness	0.35mm	Condition	Biaxially Oriented				
	Colour	Opaque grey						
	Size		Quantity					
Web Code		Size	1pc	2pcs	5pcs	10pcs	20pcs	
465-587-054		150 x 150 mm	EUR 95.00	EUR 104.00	EUR 125.00	EUR 151.00	EUR 195.00	
365-144-581		300 x 300 mm	EUR 112.00	EUR 128.00	EUR 163.00	EUR 205.00	EUR 271.00	
839-469-871		332 x 345 mm	EUR 117.00	EUR 135.00	EUR 173.00	EUR 219.00		
949-310-177		600 x 600 mm	EUR 146.00	EUR 177.00	EUR 239.00			
ES301485	Thickness	0.50mm	Condition	Biaxially Oriented				
	Condition	Biaxially Oriented	Colour	Grey				
	Size		Quantity					
Web Code		Size	1pc	2pcs	5pcs	10pcs	20pcs	
916-753-564		100 x 100 mm	EUR 90.50	EUR 98.00	EUR 115.00	EUR 137.00	EUR 174.00	
364-299-696		150 x 150 mm	EUR 97.00	EUR 107.00	EUR 128.00	EUR 156.00	EUR 202.00	
953-159-132		300 x 300 mm	EUR 115.00	EUR 133.00	EUR 170.00	EUR 215.00	EUR 285.00	
463-428-076		600 x 600 mm	EUR 153.00	EUR 186.00	EUR 253.00	EUR 415.00	EUR 754.00	
ES301445	Thickness	0.25mm	Condition	Transparent				
	Condition	Amorphous						
	Size		Quantity					
Web Code		Size	1pc	2pcs	5pcs	10pcs	20pcs	
518-097-996		300 x 300 mm	EUR 116.00	EUR 133.00	EUR 171.00	EUR 225.00	EUR 317.00	
762-241-804		610 x 610 mm	EUR 142.00	EUR 170.00	EUR 229.00	EUR 307.00		
280-233-532								
029-198-547								
608-788-418								

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Metallised Film

ES301821 Thickness **0.002mm** Coil width **315mm**
 Ohms/Square **1.4** Metallised on both sides **Aluminium - 0.7 Ohms/Square**
 with

Metallised width **305mm**

Coil

Web Code	Width 315mm	Length	Quantity
		1 Reel	
843-088-230		0.2 m	EUR 222.00
353-639-216		0.5 m	EUR 263.00
030-389-039		1 m	EUR 311.00
958-238-163		2 m	EUR 387.00
978-695-485		5 m	EUR 558.00
592-217-171		10 m	EUR 784.00

ES301820 Thickness **0.002mm** Coil width **315mm**
 Ohms/Square **1.5** Metallised with **Aluminium**
 Metallised width **305mm** Condition **Metallised on one side**

Coil

Web Code	Width 315mm	Length	Quantity
		1 Reel	
305-593-509		0.2 m	EUR 255.00
021-621-576		0.5 m	EUR 305.00
685-250-844		1 m	EUR 385.00
917-421-823		2 m	EUR 538.00
926-260-498		5 m	EUR 982.00
514-316-226		10 m	EUR 1725.00

ES301835 Thickness **0.0035mm** Coil width **300mm**
 Ohms/Square **1.5** Metallised with **Aluminium**
 Condition **Metallised on one side**

Coil

Web Code	Width 300mm	Length	Quantity
		1 Reel	
926-000-309		0.5 m	EUR 208.00
750-045-674		1 m	EUR 246.00
755-710-832		2 m	EUR 308.00
463-858-600		5 m	EUR 463.00
982-333-536		10 m	EUR 689.00

ES301840 Thickness **0.004mm** Coil width **9mm**
 Ohms/Square **3** Metallised with **Aluminium**
 Condition **Metallised on one side**

Coil

Web Code	Width 9mm	Length	Quantity
		1 Reel	
961-609-781		1 m	EUR 109.00
201-215-784		2 m	EUR 120.00
151-965-077		5 m	EUR 151.00
995-625-403		10 m	EUR 197.00

This coil has a strip 2mm wide on one edge which is NOT metallised.

ES301855 Thickness **0.005mm** Coil width **315mm**
 Ohms/Square **1.5** Metallised with **Aluminium**
 Metallised width **305mm** Condition **Metallised on one side**

Coil

Web Code	Width 315mm	Length	Quantity
		1 Reel	
156-912-931		0.5 m	EUR 178.00
022-206-352		1 m	EUR 222.00
897-529-996		2 m	EUR 290.00
233-889-259		5 m	EUR 446.00
061-337-116		10 m	EUR 656.00

ES301860 Thickness **0.006mm** Coil width **27mm**
 Ohms/Square **3** Metallised with **Aluminium**
 Condition **Metallised on one side**

Coil

Web Code	Width 27mm	Length	Quantity
		1 Reel	
527-703-150		1 m	EUR 109.00
962-887-887		2 m	EUR 119.00
360-985-908		5 m	EUR 138.00
123-243-947		10 m	EUR 160.00
405-489-115		50 m	EUR 264.00
686-144-766		100 m	EUR 352.00

ES301865 Thickness **0.006mm** Coil width **315mm**
 Ohms/Square **1.4** Metallised on both sides **Aluminium - 0.7 Ohms/Square**
 with

Coil

Web Code	Width 315mm	Length	Quantity
		1 Reel	
669-181-781		0.5 m	EUR 232.00
268-080-826		1 m	EUR 299.00
609-438-221		2 m	EUR 398.00
372-561-602		5 m	EUR 617.00
714-436-495		10 m	EUR 898.00

Suitable for use in most alpha-particle counters.

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Metallised Film

ES301914 Thickness **0.012mm**

Metallised on both sides **Aluminium - 1 Ohms/Square**
 with

Size

Web Code
 775-720-641
 273-484-977
 464-134-020

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
115 x 115 mm	EUR 157.00	EUR 162.00	EUR 171.00	EUR 183.00	EUR 201.00
175 x 175 mm	EUR 162.00	EUR 169.00	EUR 182.00	EUR 198.00	EUR 223.00
350 x 350 mm	EUR 177.00	EUR 189.00	EUR 215.00	EUR 244.00	EUR 288.00

Coil

Web Code
 678-430-316
 852-452-175
 624-916-313
 488-908-743
 739-448-494
 043-302-577

Length	Quantity	
	1 Reel	
0.5 m	EUR 200.00	
1 m	EUR 214.00	
2 m	EUR 235.00	
5 m	EUR 276.00	
10 m	EUR 322.00	
20 m	EUR 388.00	

ES301912 Thickness **0.012mm**
 Metallised with **Aluminium**

Ohms/Square **2**
 Condition. **Metallised on one side**

Size

Web Code
 538-703-845
 223-432-628
 392-481-966

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	EUR 165.00	EUR 170.00	EUR 182.00	EUR 200.00	EUR 231.00
150 x 150 mm	EUR 169.00	EUR 175.00	EUR 191.00	EUR 211.00	EUR 247.00
300 x 300 mm	EUR 179.00	EUR 191.00	EUR 215.00	EUR 246.00	EUR 296.00

Coil

Web Code
 579-110-257
 192-624-374
 167-785-823
 584-444-213
 879-326-726
 904-521-675

Length	Quantity	
	1 Reel	
0.5 m	EUR 190.00	
1 m	EUR 203.00	
2 m	EUR 222.00	
5 m	EUR 262.00	
10 m	EUR 312.00	
20 m	EUR 390.00	

ES301913 Thickness **0.012mm**
 Ohms/Square **2**
 Condition. **Metallised on one side**

Coil width **600mm**
 Metallised with **Aluminium**

Coil

Web Code
 697-911-928
 059-474-987
 807-527-763
 146-253-013
 029-415-567
 954-101-007

Length	Quantity	
	1 Reel	
0.5 m	EUR 189.00	
1 m	EUR 201.00	
2 m	EUR 219.00	
5 m	EUR 257.00	
10 m	EUR 303.00	
20 m	EUR 377.00	

ES301923 Thickness **0.023mm**
 Metallised with **Aluminium**

Ohms/Square **2**
 Condition. **Metallised on one side**

Size

Web Code
 043-814-885
 056-235-019

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
150 x 150 mm	EUR 135.00	EUR 151.00	EUR 186.00	EUR 229.00
300 x 300 mm	EUR 170.00	EUR 200.00	EUR 264.00	EUR 339.00

Coil

Web Code
 981-405-524
 553-824-747
 507-855-447
 777-922-043

Length	Quantity	
	1 Reel	
0.5 m	EUR 194.00	
1 m	EUR 232.00	
2 m	EUR 287.00	
5 m	EUR 399.00	

ES301900 Thickness **0.036mm**
 Metallised with **Stainless Steel**

Ohms/Square **> 2500**
 Condition. **Metallised on one side**

Size

Web Code
 768-093-369
 011-671-845
 458-987-455
 373-427-402

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
150 x 150 mm	EUR 124.00	EUR 138.00	EUR 167.00	EUR 205.00	EUR 263.00
300 x 300 mm	EUR 152.00	EUR 178.00	EUR 231.00	EUR 295.00	
500 x 500 mm	EUR 190.00	EUR 232.00	EUR 316.00		
1000 x 1000 mm	EUR 285.00	EUR 366.00			

Discs

Web Code
 678-433-230
 804-152-223
 519-034-244
 879-275-536
 909-446-804
 680-855-798
 106-973-624

Diameter	Quantity			
	10 discs	20 discs	25 discs	50 discs
6 mm	EUR 198.00	EUR 223.00	EUR 233.00	EUR 278.00
8 mm	EUR 200.00	EUR 225.00	EUR 235.00	EUR 281.00
10 mm	EUR 201.00	EUR 227.00	EUR 237.00	EUR 284.00
12.5 mm	EUR 202.00	EUR 230.00	EUR 240.00	EUR 288.00
25 mm	EUR 211.00	EUR 241.00	EUR 253.00	EUR 307.00
50 mm	EUR 227.00	EUR 265.00	EUR 279.00	EUR 344.00
100 mm	EUR 261.00	EUR 312.00	EUR 331.00	EUR 418.00

Stainless Steel thickness : 0.01 microns

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Metallised Film

ES301902	Thickness	0.036mm	Ohms/Square	200				
	Metallised with	Stainless Steel	Condition	Metallised on one side				
Size			Quantity					
Web Code	Size		1pc	2pcs	5pcs	10pcs	20pcs	
164-001-354	150 x 150 mm		EUR 129.00	EUR 146.00	EUR 180.00	EUR 223.00	EUR 289.00	
500-165-747	300 x 300 mm		EUR 164.00	EUR 194.00	EUR 257.00	EUR 331.00		
520-720-064	500 x 500 mm		EUR 209.00	EUR 259.00	EUR 359.00			
090-007-731	1000 x 1000 mm		EUR 323.00	EUR 420.00				

Stainless Steel thickness : 0.021 microns

ES301911	Thickness	0.036mm	Ohms/Square	200				
	Metallised with	Titanium	Condition	Metallised on one side				
Size			Quantity					
Web Code	Size		1pc	2pcs	5pcs	10pcs	20pcs	
060-162-619	150 x 150 mm		EUR 118.00	EUR 129.00	EUR 154.00	EUR 186.00	EUR 236.00	
520-332-053	300 x 300 mm		EUR 140.00	EUR 161.00	EUR 204.00	EUR 269.00		
041-504-486	500 x 500 mm		EUR 170.00	EUR 203.00	EUR 319.00			
188-062-164	1000 x 1000 mm		EUR 267.00	EUR 441.00				

Titanium Thickness : 0.014 microns

ES301901	Thickness	0.036mm	Ohms/Square	700				
	Metallised with	Stainless Steel	Condition	Metallised on one side				
Size			Quantity					
Web Code	Size		1pc	2pcs	5pcs	10pcs	20pcs	
371-704-468	150 x 150 mm		EUR 124.00	EUR 138.00	EUR 167.00	EUR 205.00	EUR 263.00	
463-051-877	300 x 300 mm		EUR 152.00	EUR 178.00	EUR 231.00	EUR 295.00		
881-482-457	500 x 500 mm		EUR 190.00	EUR 232.00	EUR 316.00			
185-312-003	1000 x 1000 mm		EUR 285.00	EUR 366.00				

Stainless Steel thickness : 0.015 microns

ES301910	Thickness	0.036mm	Ohms/Square	700				
	Metallised with	Titanium	Condition	Metallised on one side				
Size			Quantity					
Web Code	Size		1pc	2pcs	5pcs	10pcs	20pcs	
250-971-484	150 x 150 mm		EUR 136.00	EUR 154.00	EUR 194.00	EUR 242.00	EUR 317.00	
371-425-807	300 x 300 mm		EUR 176.00	EUR 212.00	EUR 285.00	EUR 371.00		
428-227-837	500 x 500 mm		EUR 230.00	EUR 288.00	EUR 406.00			
528-481-313	1000 x 1000 mm		EUR 365.00	EUR 479.00				

Titanium thickness : 0.011 microns

ES301955	Thickness	0.05mm	Ohms/Square	2				
	Metallised with	Aluminium	Condition	Metallised on one side				
Size			Quantity					
Web Code	Size		1pc	2pcs	5pcs	10pcs	20pcs	
209-031-615	150 x 150 mm		EUR 138.00	EUR 156.00	EUR 194.00	EUR 240.00	EUR 311.00	
424-132-846	270 x 270 mm		EUR 169.00	EUR 199.00	EUR 262.00	EUR 336.00	EUR 447.00	
194-910-483	540 x 540 mm		EUR 237.00	EUR 296.00	EUR 415.00	EUR 552.00		
Coil		Width 540mm	Quantity					
Web Code	Length	1 Reel						
339-804-413	0.5 m		EUR 236.00					
992-518-484	1 m		EUR 292.00					
064-803-234	2 m		EUR 372.00					
100-404-324	5 m		EUR 533.00					
119-937-885	10 m		EUR 792.00					

ES301980	Thickness	0.10mm	Ohms/Square	2				
	Metallised with	Aluminium	Condition	Metallised on one side				
Size			Quantity					
Web Code	Size		1pc	2pcs	5pcs	10pcs		
169-549-595	150 x 150 mm		EUR 145.00	EUR 166.00	EUR 209.00	EUR 261.00		
773-770-782	300 x 300 mm		EUR 190.00	EUR 229.00	EUR 309.00	EUR 403.00		
Coil		Width 610mm	Quantity					
Web Code	Length	1 Reel						
627-418-191	0.5 m		EUR 270.00					
130-107-572	1 m		EUR 339.00					
345-431-221	2 m		EUR 438.00					
322-904-445	5 m		EUR 638.00					

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Metallised Film

ES301990

Thickness **0.125mm**
 Condition..... **Metallised on one side**

Metallised with **Aluminium**

Size	Web Code	Quantity			
		1pc	2pcs	5pcs	10pcs
150 x 150 mm	300-798-418	EUR 152.00	EUR 175.00	EUR 224.00	EUR 283.00
300 x 300 mm	795-629-758	EUR 203.00	EUR 248.00	EUR 339.00	EUR 446.00

Coil	Web Code	Width 610mm	Length	Quantity
				1 Reel
	505-971-637		0.5 m	EUR 294.00
	516-709-089		1 m	EUR 374.00
	697-541-465		2 m	EUR 488.00
	210-860-413		5 m	EUR 805.00



Laminate

ES301520

Thickness **0.06mm**
 Backing Material **0.018mm Copper**

Polymer Thickness **0.025mm**

Size	Web Code	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	040-659-485	EUR 118.00	EUR 135.00	EUR 180.00	EUR 230.00	EUR 321.00
150 x 150 mm	082-427-818	EUR 127.00	EUR 147.00	EUR 199.00	EUR 256.00	EUR 358.00
300 x 300 mm	303-481-102	EUR 151.00	EUR 182.00	EUR 254.00	EUR 335.00	
600 x 600 mm	935-148-117	EUR 201.00	EUR 253.00	EUR 365.00		

Coil	Web Code	Width 610mm	Length	Quantity
				1 Reel
	186-830-842		1 m	EUR 239.00
	353-856-992		2 m	EUR 295.00
	615-550-574		5 m	EUR 408.00

ES301532

Thickness **0.1mm**
 Backing Material **0.035mm Copper**

Polymer Thickness **0.05mm**

Size	Web Code	Quantity			
		1pc	2pcs	5pcs	10pcs
100 x 100 mm	232-124-714	EUR 122.00	EUR 136.00	EUR 166.00	EUR 206.00
150 x 150 mm	015-597-294	EUR 135.00	EUR 154.00	EUR 195.00	EUR 247.00
300 x 300 mm	949-652-720	EUR 173.00	EUR 209.00	EUR 282.00	

Coil	Web Code	Width 610mm	Length	Quantity
				1 Reel
	706-599-628		0.5 m	EUR 242.00
	324-953-512		1 m	EUR 302.00
	619-189-602		2 m	EUR 388.00
	398-708-164		3 m	EUR 519.00
	838-522-081		4 m	EUR 660.00
	815-261-929		5 m	EUR 800.00

ES301554

Thickness **0.16mm**
 Backing Material **0.07mm Copper**

Polymer Thickness **0.075mm**

Size	Web Code	Quantity			
		1pc	2pcs	5pcs	10pcs
100 x 100 mm	907-747-710	EUR 126.00	EUR 141.00	EUR 175.00	EUR 218.00
150 x 150 mm	468-469-527	EUR 140.00	EUR 162.00	EUR 208.00	EUR 265.00
300 x 300 mm	558-695-421	EUR 185.00	EUR 225.00	EUR 307.00	

Coil	Web Code	Width 610mm	Length	Quantity
				1 Reel
	836-936-059		0.5 m	EUR 263.00
	617-002-065		1 m	EUR 332.00
	125-257-027		2 m	EUR 466.00
	657-125-062		3 m	EUR 650.00
	140-629-684		4 m	EUR 834.00



Sheet

ES303010

Thickness **1mm**
 Colour **Clear**

Condition..... **Amorphous**
 Condition..... **Transparent**

Size	Web Code	Quantity			
		1pc	2pcs	5pcs	10pcs
150 x 150 mm	818-277-811	EUR 110.00	EUR 127.00	EUR 172.00	EUR 225.00
300 x 300 mm	284-732-178	EUR 127.00	EUR 151.00	EUR 211.00	
600 x 600 mm	591-523-503	EUR 161.00	EUR 200.00		

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Sheet

ES303015	Thickness	1.5mm	Condition		Amorphous
	Colour	Clear	Condition		Transparent
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	10pcs
546-080-473	150 x 150 mm	EUR 114.00	EUR 133.00	EUR 181.00	EUR 237.00
478-156-678	300 x 300 mm	EUR 135.00	EUR 162.00	EUR 228.00	
593-517-447	600 x 600 mm	EUR 177.00	EUR 222.00		

ES303020	Thickness	2mm	Condition		Amorphous
	Colour	Clear	Condition		Transparent
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	10pcs
217-137-341	150 x 150 mm	EUR 116.00	EUR 136.00	EUR 186.00	EUR 245.00
142-163-851	300 x 300 mm	EUR 139.00	EUR 169.00	EUR 239.00	EUR 319.00
770-481-966	600 x 600 mm	EUR 186.00	EUR 235.00		EUR 349.00

ES303021	Thickness	2mm	Condition		Copolymer
	Colour	Clear	Condition		Transparent
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	10pcs
794-856-548	100 x 100 mm	EUR 131.00	EUR 137.00	EUR 153.00	EUR 177.00
136-872-418	150 x 150 mm	EUR 134.00	EUR 142.00	EUR 161.00	EUR 188.00
145-112-154	300 x 300 mm	EUR 144.00	EUR 156.00	EUR 183.00	EUR 221.00

ES303030	Thickness	3mm	Condition		Amorphous
	Colour	Clear	Condition		Transparent
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	10pcs
580-239-748	150 x 150 mm	EUR 121.00	EUR 143.00	EUR 198.00	EUR 261.00
991-473-702	300 x 300 mm	EUR 150.00	EUR 184.00	EUR 262.00	EUR 352.00
348-371-514	600 x 600 mm	EUR 207.00	EUR 265.00		EUR 373.00

ES303050	Thickness	5mm	Colour		White
	Condition	Semi-crystalline			
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	10pcs
555-887-315	100 x 100 mm	EUR 110.00	EUR 128.00	EUR 173.00	EUR 228.00
485-924-359	150 x 150 mm	EUR 119.00	EUR 140.00	EUR 192.00	
740-538-187	300 x 300 mm	EUR 145.00	EUR 176.00	EUR 250.00	
744-071-251	500 x 500 mm	EUR 179.00	EUR 225.00		

ES303100	Thickness	10mm	Colour		White
	Condition	Semi-crystalline			
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	
567-268-938	150 x 150 mm	EUR 124.00	EUR 149.00	EUR 210.00	
908-612-510	300 x 300 mm	EUR 160.00	EUR 200.00		

ES303250	Thickness	25mm	Colour		White
	Condition	Semi-crystalline			
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	
576-562-560	150 x 150 mm	EUR 180.00	EUR 227.00	EUR 357.00	
070-321-700	300 x 300 mm	EUR 271.00	EUR 459.00		



Fabric

ES303520	Weight.m ⁻²	92g	Thickness		0.13mm
	Warp Yarn	28Tex	Weft Yarn		28Tex
Ends x Picks/10cm	157x157	Weave		Plain	
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	10pcs
790-223-707	150 x 150 mm	EUR 102.00	EUR 110.00	EUR 132.00	EUR 164.00
777-967-817	300 x 300 mm	EUR 111.00	EUR 123.00	EUR 152.00	EUR 193.00
245-979-620	500 x 500 mm	EUR 123.00	EUR 140.00	EUR 180.00	EUR 223.00

Coil	Width 1470mm	Quantity	
	Web Code	Length	1 Reel
747-454-678	0.5 m	EUR 141.00	
431-834-143	1 m	EUR 165.00	
979-271-164	2 m	EUR 198.00	

Polyester fibre: Laminates based on this lack stiffness but have excellent impact resistance properties. Plain weave: Warp (longitudinal) yarns (ends) pass over and under alternate weft (transverse) yarns (picks) and vice-versa.

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Mesh

ES308704	Nominal Aperture..... 21µm	Monofil diameter..... 41µm
	Threads/cm..... 163	Open area..... 12%
	Type..... Plain weave mesh	
Size	Quantity	
Web Code	Size	1pc 2pcs 5pcs 10pcs
564-052-468	250 x 250 mm	EUR 149.00 EUR 183.00 EUR 246.00 EUR 326.00
061-667-407	500 x 500 mm	EUR 204.00 EUR 262.00 EUR 455.00

ES308710	Nominal Aperture..... 100µm	Monofil diameter..... 70µm
	Threads/cm..... 55	Open area..... 33%
	Type..... Plain weave mesh	
Size	Quantity	
Web Code	Size	1pc 2pcs 5pcs 10pcs
019-331-299	250 x 250 mm	EUR 123.00 EUR 146.00 EUR 186.00 EUR 241.00
416-401-841	500 x 500 mm	EUR 149.00 EUR 183.00 EUR 258.00



Fibre

Material		Medium	High tenacity
Density	g cm ⁻³	1.39	1.39
Extension to break	%	36	13-16
Modulus	GPa		9-11
Specific Modulus	cN/tex		700-800
Shrinkage @100C	%	4	1.5-6
Specific Tenacity	cN/tex	36	70-80

ES305710	Tex Number..... 3.3	Filament diameter..... 0.014mm
	Number of filaments..... 15	Condition..... Medium Tenacity
	Length	Quantity
Web Code	Length	1 Reel
015-523-954	100 m	EUR 109.00
940-488-582	200 m	EUR 125.00
561-072-909	500 m	EUR 172.00
134-124-725	1000 m	EUR 250.00

Continuous multi-filament yarn

ES305720	Tex Number..... 7.4	Filament diameter..... 0.017mm
	Number of filaments..... 24	Condition..... High Tenacity
	Length	Quantity
Web Code	Length	1 Reel
765-592-482	100 m	EUR 109.00
699-060-446	200 m	EUR 126.00
382-559-462	500 m	EUR 173.00
819-936-513	1000 m	EUR 251.00

Continuous multi-filament yarn

ES305730	Tex Number..... 110	Filament diameter..... 0.023mm
	Number of filaments..... 192	Condition..... High Tenacity
	Length	Quantity
Web Code	Length	1 Reel
492-066-966	100 m	EUR 140.00
508-365-072	200 m	EUR 167.00
545-636-762	500 m	EUR 246.00
204-588-524	1000 m	EUR 375.00

Continuous multi-filament yarn



Monofilament

ES305910	Diameter..... 0.1mm	Quantity
	Length	1 Reel
	Web Code	Length
573-563-543	10 m	EUR 122.00
695-438-494	20 m	EUR 155.00
929-802-666	50 m	EUR 250.00
225-333-084	100 m	EUR 272.00
166-633-493	200 m	EUR 311.00

Polymer – Polyethylene terephthalate

Polyethylene terephthalate

Polyester, PET, PETP



Monofilament

ES305920

Diameter 0.2mm

Length

Web Code

451-623-015
 997-046-278
 497-367-172
 571-347-306
 361-694-981

Quantity

Length	1 Reel
10 m	EUR 125.00
20 m	EUR 159.00
50 m	EUR 256.00
100 m	EUR 280.00
200 m	EUR 323.00

ES305940

Diameter 0.4mm

Length

Web Code

277-380-299
 383-530-808
 364-034-005
 767-626-047
 647-311-134

Quantity

Length	1 Reel
10 m	EUR 133.00
20 m	EUR 170.00
50 m	EUR 275.00
100 m	EUR 306.00
200 m	EUR 359.00

ES305950

Diameter 0.5mm

Length

Web Code

641-027-998
 958-198-114
 960-056-400
 951-260-474
 104-188-351

Quantity

Length	1 Reel
10 m	EUR 137.00
20 m	EUR 176.00
50 m	EUR 284.00
100 m	EUR 319.00
200 m	EUR 377.00

ES305980

Diameter 0.8mm

Length

Web Code

454-001-715
 677-067-707
 120-586-028
 951-489-407
 153-489-339

Quantity

Length	1 Reel
10 m	EUR 150.00
20 m	EUR 194.00
50 m	EUR 313.00
100 m	EUR 360.00
200 m	EUR 435.00

ES305990

Diameter 0.9mm

Length

Web Code

878-017-786
 929-521-644
 938-049-140
 215-332-409
 547-971-472

Quantity

Length	1 Reel
10 m	EUR 153.00
20 m	EUR 199.00
50 m	EUR 319.00
100 m	EUR 370.00
200 m	EUR 449.00



Rod

ES307906

Diameter 6mm

Colour Opaque white

Condition Semi-crystalline

Size

Web Code

935-338-011
 917-253-525

Quantity

Length	1pc	2pcs	5pcs	10pcs
500 mm	EUR 123.00	EUR 146.00	EUR 195.00	EUR 283.00
1000 mm	EUR 142.00	EUR 173.00	EUR 272.00	

ES307910

Diameter 10mm

Colour Opaque white

Condition Semi-crystalline

Size

Web Code

656-688-090
 086-001-944

Quantity

Length	1pc	2pcs	5pcs	10pcs
500 mm	EUR 104.00	EUR 120.00	EUR 155.00	EUR 195.00
1000 mm	EUR 114.00	EUR 134.00	EUR 178.00	

ES307925

Diameter 25mm

Colour Opaque white

Condition Semi-crystalline

Size

Web Code

750-247-722
 780-968-315
 621-041-825

Quantity

Length	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	EUR 106.00	EUR 123.00	EUR 162.00	EUR 204.00	EUR 273.00
500 mm	EUR 141.00	EUR 172.00	EUR 258.00	EUR 434.00	
1000 mm	EUR 167.00	EUR 211.00	EUR 419.00		

Polymer – Polyethylene terephthalate

Polyethylene terephthalate
Polyester, PET, PETP



Powder

ES306030 Max. Particle size **300micron** Colour **Natural**

Quantity	Weight	1 Pot
	100 g	EUR 117.00

Web Code
264-007-763



Granule

ES306312 Nominal Granule Size **3-5mm** Colour **Natural**

Quantity	Weight	1 Pot
	100 g	EUR 120.00

Web Code
461-616-825

Polymer – Polyethylene terephthalate

INDEX

A

Arnite 20

D

Dacron 20

F

Fabric, Polyethylene terephthalate 29

Fibre, Polyethylene terephthalate 30

Film, Polyethylene terephthalate 20

G

Granule, Polyethylene terephthalate 32

H

Hostaphan 20

I

Impet 20

L

Laminate, Polyethylene terephthalate 28

M

Melinar 20

Melinex 20

Mesh, Polyethylene terephthalate 30

Metallised Film, Polyethylene terephthalate 25

Monofilament, Polyethylene terephthalate 30

Mylar 20

P

Polyethylene terephthalate (Polyester, PET, PETP) 20

Powder, Polyethylene terephthalate 32

R

Rod, Polyethylene terephthalate 31

Rynite 20

S

Sheet, Polyethylene terephthalate 28

T

Terylene 20

Trevira 20