

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



Goodfellow Corporation

125 Hookstown Grade Road
Coraopolis, PA 15108-9302 PA 15108-9302
USA

Tel: 1-800-821-2870 (USA and Canada)
or +1 724 695 7060
Fax: 1-800-283-2020 (USA and Canada)
or +1 724 695 7063

Goodfellow Cambridge Limited

Ermine Business Park
HUNTINGDON
PE29 6WR
England

Tel: 011 44 1480 424 800
or 011 44 1480 424 800
Fax: 011 44 1480 424 900
or 011 44 1480 424 900

Goodfellow SARL

229, rue Solférino
F-59000 Lille
France

Tel : 0800 917 241 (numéro vert)
or +44 1480 424 813
Fax : 0800 917 313 (numéro vert)
or +44 1480 424 900

Goodfellow GmbH

Am Edelspfad 4
D-61169 Friedberg
Germany

Tel: 0800 1000 579 (freecall)
or +44 1480 424 810
Fax: 0800 1000 580 (freecall)
or +44 1480 424 900

Goodfellow (Shanghai) Trading Co., Ltd

Room 803, Centro Build, No. 568 Hengfeng Road
SHANGHAI
200070

The People's Republic of China
Tel: 00 86 21 6112 1560

Standard Price List for Polyamide - Nylon 6

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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 Catalog 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 Catalog at www.goodfellowusa.com.

Materials

Metals and Alloys

Goodfellow supplies virtually all of the pure metals from Aluminum 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

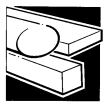
Some examples of these materials are listed in the Catalog. As some of these are manufactured on a custom-made basis, please contact us with details of your requirements.

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 Catalog 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

Ceramics: ANSI B18.6.7M-1985



Chopped Fiber

Fibers cut into short lengths called cut, staple or chopped fiber.

Tolerances

Fiber 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%



Fiber

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

Fiber 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.

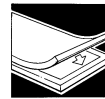


Insulated Wire

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%

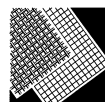


Lump

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%



Metallized 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: ± 10%
 Size (linear dimension): < 100mm ± 1mm
 ≥ 100mm + 2% / -1%

Product Descriptions



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 fibers 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.

Tolerances

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



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

Ceramics: ANSI B18.2.4.1M-1979
 (R1995)

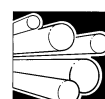


Powder

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



Rod

A straight length of circular section material.

Tolerances

Diameter:	$\leq 10\text{mm}$	$\pm 10\%$
	Polymer	$+ 20\% / -10\%$
	Ceramic	$+ 20\% / -10\%$
$> 10\text{mm}$		$\pm 5\%$
	Ceramic	$+ 20\% / -10\%$
	Polymer	$+ 20\% / -10\%$
Length:	$< 100\text{mm}$	$\pm 1\text{mm}$
	$\geq 100\text{mm}$	$+ 5\% / -1\%$

Product Descriptions



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 vaporization 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

Ceramics:	see item
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Wire

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

Tolerances

Wire diameter:	± 10%
Length:	+ 5% / - 1%

Hazards Information

HAZARDS

All materials listed in this catalog, 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 catalog, 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 catalog 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 in the catalog 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 shown are in US\$ and include free delivery by our standard 48 hour service except for those items marked as "special offer" or dangerous goods with transport restriction. Prices are subject to change without notice and orders will be invoiced at prices ruling on the date of despatch.

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

Delivery by UPS or Federal Express is included in the prices, although alternative methods may be used depending on the materials ordered.

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

Please inform us if you need to have your goods shipped urgently. An administrative charge will be made for this service, details can be found on our website.

Shipment

We aim to have all items listed in this catalog in stock in the quantities and sizes listed. We can only undertake to ship 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 shipped within 48 hours of receipt.

Non-delivery

If we have notified you of the shipment of goods and you have not received delivery within 5 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

Order information

invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

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 and American Express.

VAT

VAT number for Goodfellow Cambridge: 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 color 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

Order information

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

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

Goodfellow Cambridge Limited

Ermine Business Park
HUNTINGDON
PE29 6WR
England
Registered in England and Wales no. 1188162
VAT registration GB 212 8527 79

Goodfellow Corporation

125 Hookstown Grade Road
Coraopolis, PA 15108-9302
USA
A Pennsylvania corporation
EIN 23-2557381

Goodfellow SARL

229, rue Solférino
F-59000 Lille
France
Registered in Lille : RCS : B 381 486 836
Siren : 381486836
Numéro de TVA Intracommunitaire :
FR 06 381 486 836

Goodfellow GmbH

Am Edelspfad 4
D-61169 Friedberg
Germany
Registered in Friedberg (Hessen) No. HRB 1309
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, or 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

Polyamide - Nylon 6

PA 6

Common Brand Names : Akulon K and F, Capron, Maranyl B, Nylacast, Orgamid, Ultramid B

See also General Information under Nylon 6,6.

General Description : A semi-crystalline, white engineering thermoplastic very similar to nylon 6,6 with which it is in many respects interchangeable. Its melt viscosity is not quite as low as 6,6 so it is generally slightly easier to process and often preferred for moulding. Relative to 6,6 it has somewhat higher impact strength but somewhat lower strength and stiffness and higher water absorption (the highest of all nylons).

It can be monomer cast, commonly called just cast - ie. polymerized in a mould direct to a semi-fabricated shape. This allows the production of thick sections without voiding and gives a product with a slightly different balance of properties - a little stronger and stiffer, slightly reduced extensibility and impact strength.

Its applications are similar to those of nylon 6,6.

Physical Properties

Density	1.13 g cm ⁻³
Flammability	HB
Limiting oxygen index	25 %
Radiation resistance	Fair
Refractive index	1.53
Resistance to Ultra-violet	Poor
Water absorption - equilibrium	> 8 %
Water absorption - over 24 hours	2.7 %

Electrical Properties

Dielectric constant @1MHz	3.6
Dielectric strength	25 kV mm ⁻¹
Dissipation factor @ 1kHz	0.2
Surface resistivity	5x10 ¹⁰ Ohm/sq
Volume resistivity	5x10 ¹² Ohmcm

Thermal Properties

Coefficient of thermal expansion	95 x10 ⁻⁶ K ⁻¹
Heat-deflection temperature - 0.45MPa	200 C
Heat-deflection temperature - 1.8MPa	80 C
Lower working temperature	-40 C
Specific heat	1700 J K ⁻¹ kg ⁻¹
Thermal conductivity @23C	0.24-0.28 W m ⁻¹ K ⁻¹
Upper working temperature	80-160 C

Mechanical Properties

Abrasive resistance - ASTM D1044	5 mg/1000 cycles
Coefficient of friction	0.2-0.3
Hardness - Rockwell	M82
Izod impact strength	30-250 J m ⁻¹
Poisson's ratio	0.39
Tensile modulus	2.6-3.0 GPa
Tensile strength	78 MPa

Chemical Resistance

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



Film

Dielectric Constant @ 1MHz		2.7
Dielectric Strength @25µm thick	kV mm ⁻¹	56
Dissipation Factor @1MHz		0.025
Elongation at Break	%	250-550
Extension to break - Longitudinal	%	375-500 - crystalline, 60-70 - monax.
Extension to break - Transverse	%	375-500 - crystalline, 400-450 - monax.
Heat-sealing Temperature	C	193-232
Permeability to Carbon Dioxide @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	0.06
Permeability to Nitrogen @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	0.007
Permeability to Oxygen @25C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	0.03
Permeability to Water @38C	x10 ⁻¹³ cm ³ . cm cm ⁻² s ⁻¹ Pa ⁻¹	700
Shrinkage	%	<3 @ 150C - cryst , 8-15/1-2 @ 200C - monax.
Tensile strength - Longitudinal	MPa	70-110 - crystalline, 290-320 - monax.
Tensile strength - Transverse	MPa	70-110 - crystalline, 90-110 - monax.

AM301015 Thickness 0.015mm
 Oriented Uni-axially oriented

Color Colorless

Size

Web Code
 970-090-506
 261-314-077
 664-250-470
 031-301-754

Size	Quantity				
	5pcs	10pcs	20pcs	50pcs	100pcs
100 x 100 mm	USD 155.00	USD 180.00	USD 226.00	USD 359.00	USD 573.00
150 x 150 mm	USD 161.00	USD 188.00	USD 238.00	USD 378.00	USD 600.00
300 x 300 mm	USD 178.00	USD 213.00	USD 273.00	USD 434.00	
600 x 600 mm	USD 214.00	USD 263.00	USD 344.00		

Coil

Web Code
 912-716-626
 089-579-649
 197-461-314
 682-667-837

Width 600mm	Quantity	
	Length	1 Reel
1 m		USD 160.00
2 m		USD 198.00
5 m		USD 294.00
10 m		USD 436.00

Polyamide - Nylon 6
PA 6



Film

AM301025	Thickness 0.025mm	Color Light blue
	Condition Heat stabilized	
Size	Quantity	
Web Code	Size	5pcs 10pcs 20pcs 50pcs
333-486-189	100 x 100 mm	USD 184.00 USD 219.00 USD 280.00 USD 445.00
685-769-909	150 x 150 mm	USD 201.00 USD 243.00 USD 314.00
721-244-114	300 x 300 mm	USD 251.00 USD 314.00
Coil	Width 500mm	Quantity
Web Code	Length	1 Reel
272-535-601	0.5 m	USD 197.00
155-516-252	1 m	USD 238.00
439-531-050	2 m	USD 303.00

Lay-flat tubing which may be slit along one edge to give a coil of twice the width having a center crease.

AM301026	Thickness 0.025mm	Color Colorless
	Oriented Uni-axially oriented	
Size	Quantity	
Web Code	Size	5pcs 10pcs 20pcs 50pcs 100pcs
053-670-237	100 x 100 mm	USD 182.00 USD 223.00 USD 300.00 USD 517.00 USD 862.00
708-785-051	150 x 150 mm	USD 194.00 USD 241.00 USD 325.00 USD 556.00 USD 917.00
598-136-463	300 x 300 mm	USD 231.00 USD 293.00 USD 399.00 USD 673.00
767-059-157	600 x 600 mm	USD 305.00 USD 398.00
Coil	Width 600mm	Quantity
Web Code	Length	1 Reel
882-389-429	1 m	USD 213.00
298-680-031	2 m	USD 269.00
335-003-930	5 m	USD 402.00
875-491-590	10 m	USD 586.00

AM301052	Thickness 0.06mm	Coil width 605mm
	Condition Transparent	Condition Heat stabilized
Coil	Width 605mm	Quantity
Web Code	Length	1 Reel
119-540-667	1 m	USD 210.00
123-335-749	2 m	USD 227.00
941-348-213	5 m	USD 261.00
137-792-541	10 m	USD 337.00
563-229-960	20 m	USD 505.00

Lay-flat tubing which may be slit along one edge to give a coil of twice the width having a center crease.

AM301051	Thickness 0.060mm	Condition Transparent
	Condition Heat stabilized	
Size	Quantity	
Web Code	Size	5pcs 10pcs 20pcs 50pcs 100pcs
313-507-217	150 x 150 mm	USD 199.00 USD 245.00 USD 334.00 USD 590.00 USD 1007.00
142-214-932	200 x 200 mm	USD 204.00 USD 252.00 USD 344.00 USD 606.00
436-310-967	300 x 300 mm	USD 214.00 USD 267.00 USD 364.00 USD 638.00
620-219-995	600 x 600 mm	USD 245.00 USD 310.00 USD 454.00
385-011-751	900 x 900 mm	USD 276.00 USD 394.00 USD 644.00
Coil	Width 914.4mm	Quantity
Web Code	Length	1 Reel
889-103-430	1 m	USD 220.00
643-171-469	2 m	USD 246.00
514-962-296	5 m	USD 306.00
799-197-802	10 m	USD 441.00
646-833-773	20 m	USD 712.00

AM301075	Thickness 0.075mm	Condition Semi-crystalline
Size	Quantity	
Web Code	Size	5pcs 10pcs 20pcs 50pcs 100pcs
201-469-914	100 x 100 mm	USD 162.00 USD 202.00 USD 318.00 USD 659.00 USD 1220.00
183-749-137	150 x 150 mm	USD 166.00 USD 209.00 USD 328.00 USD 674.00 USD 1242.00
968-647-110	300 x 300 mm	USD 181.00 USD 230.00 USD 357.00 USD 721.00
080-890-720	600 x 600 mm	USD 211.00 USD 272.00 USD 416.00
Coil	Width 600mm	Quantity
Web Code	Length	1 Reel
111-345-616	1 m	USD 193.00
918-204-481	2 m	USD 236.00
775-554-586	5 m	USD 352.00

AM301100	Thickness 0.1mm	Color Translucent
	Condition Semi-crystalline	
Size	Quantity	
Web Code	Size	5pcs 10pcs 20pcs 50pcs
944-320-576	100 x 100 mm	USD 172.00 USD 219.00 USD 291.00 USD 496.00
040-070-788	150 x 150 mm	USD 179.00 USD 230.00 USD 305.00
008-845-941	300 x 300 mm	USD 201.00 USD 261.00

Polymer - Polyamide - Nylon 6

Polyamide - Nylon 6

PA 6



Film

AM301170 Thickness 0.17mm

Size

Web Code
 991-474-042
 115-650-089

Size	Quantity		
	5pcs	10pcs	20pcs
100 x 100 mm	USD 143.00	USD 170.00	USD 208.00
200 x 200 mm	USD 171.00	USD 209.00	

Coil

Web Code
 526-238-289
 970-124-478
 262-397-987
 453-979-748

Width 200mm

Length	1 Reel
	0.5 m
1 m	USD 182.00
2 m	USD 207.00
5 m	USD 326.00

AM301200 Thickness 0.2mm

Size

Web Code
 398-055-668
 246-092-703

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
95 x 100 mm	USD 116.00	USD 124.00	USD 142.00	USD 169.00
190 x 200 mm	USD 128.00	USD 141.00	USD 169.00	

Coil

Web Code
 095-605-616
 835-163-627
 328-639-903
 810-616-578

Width 190mm

Length	1 Reel
	0.5 m
1 m	USD 171.00
5 m	USD 322.00
10 m	USD 528.00

AM301350 Thickness 0.35mm

Size

Web Code
 317-824-507
 706-859-495

Size	Quantity				
	5pcs	10pcs	20pcs	50pcs	100pcs
100 x 100 mm	USD 142.00	USD 167.00	USD 204.00	USD 310.00	USD 511.00
200 x 200 mm	USD 167.00	USD 204.00	USD 299.00	USD 585.00	

Coil

Web Code
 207-493-276
 604-060-404
 997-633-180
 337-271-698
 994-544-501

Width 200mm

Length	1 Reel
	0.5 m
1 m	USD 169.00
2 m	USD 192.00
5 m	USD 308.00
10 m	USD 500.00

AM301400 Thickness 0.5mm

Color Natural

Size

Web Code
 847-484-166
 227-030-933

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
300 x 300 mm	USD 138.00	USD 155.00	USD 195.00	USD 289.00	USD 469.00
600 x 600 mm	USD 171.00	USD 233.00	USD 432.00	USD 764.00	

Coil

Web Code
 244-656-638
 580-960-642
 620-085-129
 510-645-677

Width 605mm

Length	1 Reel
	0.5 m
1 m	USD 224.00
2 m	USD 332.00
5 m	USD 657.00



Sheet

AM303010 Thickness 1mm

Size

Web Code
 694-682-057
 835-254-851
 406-851-047
 856-375-590

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 119.00	USD 127.00	USD 145.00	USD 171.00	USD 208.00
150 x 150 mm	USD 125.00	USD 135.00	USD 158.00	USD 189.00	
300 x 300 mm	USD 142.00	USD 159.00	USD 201.00		
500 x 500 mm	USD 165.00	USD 201.00			

AM303020 Thickness 2mm

Size

Web Code
 328-905-078
 799-493-346

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
250 x 250 mm	USD 148.00	USD 168.00	USD 233.00	USD 361.00
500 x 500 mm	USD 198.00	USD 292.00	USD 573.00	

AM303025 Thickness 3.0mm

Size

Web Code
 093-720-677
 007-054-952

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
250 x 250 mm	USD 157.00	USD 179.00	USD 235.00	USD 360.00
500 x 500 mm	USD 202.00	USD 292.00	USD 566.00	

Polymer - Polyamide - Nylon 6

Polyamide - Nylon 6

PA 6



Sheet

AM303050 Thickness 5mm

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	
Web Code 868-627-966 578-490-143	150 x 150 mm 300 x 300 mm	USD 157.00 USD 242.00	USD 180.00 USD 379.00	USD 287.00 USD 792.00	USD 471.00

AM303100 Thickness 10mm

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	
Web Code 909-192-221 649-026-968 128-364-049 045-508-808	100 x 100 mm 150 x 150 mm 300 x 300 mm 500 x 500 mm	USD 143.00 USD 161.00 USD 235.00 USD 462.00	USD 161.00 USD 187.00 USD 366.00	USD 200.00 USD 279.00	USD 276.00

AM303300 Thickness 10mm

Condition. Oil-filled Nylon '6'

Size	Quantity			
	1pc	2pcs	5pcs	
Web Code 919-849-887 981-235-209 654-408-414	100 x 100 mm 150 x 150 mm 300 x 300 mm	USD 145.00 USD 164.00 USD 280.00	USD 163.00 USD 197.00	USD 215.00

Impregnated with oil to decrease further the coefficient of friction



Monofilament

AM305915 Diameter 0.15mm

Condition. Nylon 6/66 copolymer

Length	Quantity
	1 Reel
Web Code 801-062-072	100 m USD 155.00

AM305918 Diameter 0.16mm
Color Pale gray

Condition. Nylon 6/66 copolymer

Length	Quantity
	1 Reel
Web Code 321-523-738	100 m USD 160.00

AM305925 Diameter 0.25mm

Condition. Nylon 6/66 copolymer

Length	Quantity
	1 Reel
Web Code 173-864-327 733-042-989 630-373-466 796-675-333	100 m USD 160.00 200 m USD 194.00 500 m USD 230.00 1000 m USD 279.00

AM305938 Diameter 0.35mm

Condition. Nylon 6/66 copolymer

Length	Quantity
	1 Reel
Web Code 979-036-937 545-438-768 135-502-407 357-061-571 709-332-268	50 m USD 140.00 100 m USD 165.00 200 m USD 210.00 500 m USD 250.00 1000 m USD 321.00

AM305950 Diameter 0.5mm

Condition. Nylon 6/66 copolymer

Length	Quantity
	1 Reel
Web Code 584-418-559 052-323-059 580-005-080 540-387-073 548-386-154	50 m USD 143.00 100 m USD 169.00 200 m USD 215.00 500 m USD 259.00 1000 m USD 351.00

AM305970 Diameter 0.7mm

Condition. Nylon 6/66 copolymer

Length	Quantity
	1 Reel
Web Code 839-476-630	50 m USD 151.00

Polymer - Polyamide - Nylon 6

Polyamide - Nylon 6

PA 6



Monofilament

AM305990 Diameter 1.0mm Condition Nylon 6/66 copolymer
Length **Quantity**
Web Code Length 1 Reel
 533-606-146 50 m USD 155.00

AM305992 Diameter 1.2mm Condition Nylon 6/66 copolymer
Length **Quantity**
Web Code Length 1 Reel
 588-403-194 50 m USD 143.00

AM305994 Diameter 1.4mm Condition Nylon 6/66 copolymer
Length **Quantity**
Web Code Length 1 Reel
 383-090-815 50 m USD 177.00



Rod

AM307902 Diameter 2mm
Size **Quantity**
Web Code Length 1pc 2pcs 5pcs 10pcs
 902-826-743 1000 mm USD 107.00 USD 114.00 USD 133.00 USD 160.00

AM307905 Diameter 5mm Tolerance +0.1/+0.6 mm
Size **Quantity**
Web Code Length 1pc 2pcs 5pcs 10pcs 20pcs
 668-712-886 1000 mm USD 125.00 USD 139.00 USD 185.00 USD 275.00 USD 434.00

AM307907 Diameter 6mm Color Black
 Contains 3-5% MoS₂
Size **Quantity**
Web Code Length 1pc 2pcs 5pcs 10pcs
 638-966-861 1000 mm USD 117.00 USD 128.00 USD 156.00 USD 192.00

AM307910 Diameter 10mm
Size **Quantity**
Web Code Length 1pc 2pcs 5pcs
 870-855-250 1000 mm USD 126.00 USD 141.00 USD 174.00

AM307913 Diameter 10mm Color Black
 Contains 3-5% MoS₂
Size **Quantity**
Web Code Length 1pc 2pcs 5pcs 10pcs
 552-457-312 500 mm USD 123.00 USD 136.00 USD 167.00 USD 211.00
 057-173-253 1000 mm USD 133.00 USD 151.00 USD 193.00

AM307914 Diameter 15mm
Size **Quantity**
Web Code Length 1pc 2pcs 5pcs
 146-655-633 1000 mm USD 154.00 USD 187.00 USD 325.00

AM307917 Diameter 20mm
Size **Quantity**
Web Code Length 1pc 2pcs 5pcs
 680-859-954 500 mm USD 149.00 USD 173.00 USD 250.00
 723-855-331 1000 mm USD 169.00 USD 211.00

Polymer - Polyamide - Nylon 6

Polyamide - Nylon 6

PA 6



Rod

AM307916 Diameter..... 25mm

Size Web Code	Length	Quantity		
		1pc	2pcs	5pcs
838-410-825	500 mm	USD 153.00	USD 179.00	USD 274.00
801-359-284	1000 mm	USD 175.00	USD 231.00	

AM307918 Diameter..... 25mm Color..... Black
 Contains..... 3-5% MoS₂

Size Web Code	Length	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
169-900-052	100 mm	USD 122.00	USD 136.00	USD 166.00	USD 206.00	USD 275.00
237-504-907	200 mm	USD 132.00	USD 150.00	USD 188.00	USD 253.00	
688-116-330	500 mm	USD 152.00	USD 177.00	USD 266.00		
014-543-637	1000 mm	USD 173.00	USD 224.00			

AM307928 Diameter..... 50mm Condition..... Oil-filled Nylon '6'

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
604-389-994	100 mm	USD 202.00	USD 246.00	USD 414.00	USD 682.00
548-744-138	200 mm	USD 230.00	USD 334.00	USD 634.00	
593-017-051	500 mm	USD 362.00	USD 598.00		
127-128-898	1000 mm	USD 582.00			

May suffer from residual stress, use a pilot hole when machining.

AM307926 Diameter..... 50mm

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
567-970-267	200 mm	USD 160.00	USD 195.00	USD 342.00	USD 588.00
996-276-091	500 mm	USD 209.00	USD 320.00	USD 655.00	
355-403-666	1000 mm	USD 313.00	USD 529.00		

AM307950 Diameter..... 100mm Condition..... Oil-filled Nylon '6'

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
485-034-826	100 mm	USD 227.00	USD 348.00	USD 711.00	USD 1296.00
629-360-622	200 mm	USD 330.00	USD 553.00	USD 1223.00	
670-075-051	500 mm	USD 637.00	USD 1168.00		
205-837-610	1000 mm	USD 1150.00			

May suffer from residual stress, use a pilot hole when machining.

AM307951 Diameter..... 100mm

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
923-410-431	100 mm	USD 294.00	USD 482.00	USD 1044.00	
426-303-087	200 mm	USD 545.00	USD 983.00		

AM307975 Diameter..... 150mm Condition..... Oil-filled Nylon '6'

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
650-967-702	50 mm	USD 300.00	USD 478.00	USD 1012.00	USD 1884.00
370-969-827	100 mm	USD 456.00	USD 790.00	USD 1792.00	
371-230-955	200 mm	USD 768.00	USD 1414.00		
403-864-492	500 mm	USD 1704.00			

May suffer from residual stress, use a pilot hole when machining.

AM307990 Diameter..... 150mm

Size Web Code	Length	Quantity		
		1pc	2pcs	5pcs
483-056-845	50 mm	USD 268.00	USD 338.00	USD 617.00
382-105-654	100 mm	USD 316.00	USD 476.00	USD 994.00
763-207-836	200 mm	USD 454.00	USD 778.00	USD 1749.00
400-977-634	500 mm	USD 907.00	USD 1683.00	USD 4013.00
122-210-311	1000 mm	USD 1661.00	USD 3193.00	



Tube

AM307013 Outside Diameter..... 1.34mm Wall Thickness..... 0.17mm
 Inside Diameter..... 1.0mm

Web Code	Length
555-896-319	
627-528-009	
252-899-610	
070-867-759	

Polymer - Polyamide - Nylon 6

Polyamide - Nylon 6

PA 6



Tube

AM307027

Outside Diameter..... **2.77mm**
 Inside Diameter..... **1.87mm**

Wall Thickness..... **0.45mm**

Length

Web Code
 900-138-019
 800-202-912
 187-020-537
 755-502-154
 117-313-845

AM307030

Outside Diameter..... **3.1mm**
 Inside Diameter..... **1.9mm**

Wall Thickness..... **0.6mm**

Length

Web Code
 663-068-094
 597-413-767
 374-986-742
 881-823-332
 730-427-035



Powder

AM306010

Max. Particle size..... **50micron**
 Mean Particle size..... **15-20micron**

Min. Particle size..... **5micron**
 Condition..... **Spheroidal**

Quantity

Web Code
 710-245-652
 780-705-417
 588-184-710
 523-095-485
 386-928-286

Weight	1 Pot
100 g	USD 190.00
200 g	USD 225.00
500 g	USD 313.00
1000 g	USD 449.00
2000 g	USD 667.00



Granule

AM306321

Nominal Granule Size.... **3mm**

Color..... **Natural**

Quantity

Web Code
 126-933-718
 218-623-805
 197-607-002
 027-774-188

Weight	1 Pot
0.5 kg	USD 164.00
1 kg	USD 191.00
2 kg	USD 240.00
5 kg	USD 378.00

AM306300

Nominal Granule Size.... **3mm**
 Color..... **Natural**

Condition..... **Additive free polymer**
 Molecular weight..... **10,000 g/mol**

Quantity

Web Code
 168-876-513

Weight	1 Pot
50 g	USD 275.00

This material is Research grade and contains NO additives or stabilisers.

Polymer – Polyamide - Nylon 6

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