

PBT Granules

Formula: PBT

Nominal Granule Size: 5mm

Weight: 5000g

Type: Injection Moulding

CAS Number: 24968-12-5

UOM Code: 152-432-56

SKU: 1000051842-group

Product Code: ES34-GL-000110

Material Properties for Polymers

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant @ 1kHz	3.2
Dissipation factor @ 1kHz	0.002
Dielectric strength(kV mm ⁻¹)	20
Volume resistivity(Ohmcm)	10 ¹²

Physical Properties

Element	Value
Flammability	HB

Element	Value
Radiation resistance	Good
Resistance to Ultra-violet	Fair?
Limiting oxygen index(%)	25
Water absorption - over 24 hours(%)	0.1
Density(gcm ³)	1.31

Mechanical Properties

Element	Value
Hardness - Rockwell	M70
Elongation at break(%)	250
Tensile modulus(GPa)	2
Izod impact strength(J m ²)	60
Tensile strength(MPa)	50

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	150
Heat-deflection temperature - 1.8MPa(C)	60
Upper working temperature(C)	120
Specific heat(J K ⁻¹ kg ⁻¹)	1200-2300