

Chang Chun Plastic PBT4830 Fire Retardant & 30% Glass Fiber Enforced Grade PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

Information provided by Dowell Trading Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chang-Chun-Plastic-PBT4830-Fire-Retardant-30-Glass-Fiber-Enforced-Grade-PBT.php

Physical Properties	Metric	English	Comments
Density	1.58 - 1.64 g/cc	0.0571 - 0.0592 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.014 cm/cm	0.0020 - 0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D785
Tensile Strength, Ultimate	110 - 140 MPa	16000 - 20300 psi	ASTM D638
Elongation at Break	4.0 - 5.0 %	4.0 - 5.0 %	ASTM D638
Flexural Yield Strength	150 - 230 MPa	21800 - 33400 psi	ASTM D790
Flexural Modulus	7.00 - 10.0 GPa	1020 - 1450 ksi	ASTM D790
Izod Impact, Notched	0.700 - 1.30 J/cm @Thickness 6.35 mm	1.31 - 2.44 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	16.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	ASTM D696
Melting Point	225 °C	437 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	ASTM D257
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	ASTM D257
Dielectric Constant	3.5 @Frequency 60 Hz	3.5 @Frequency 60 Hz	ASTM D150
Dielectric Strength	23.0 kV/mm @Thickness 2.00 mm	584 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.0010 @Frequency 60 Hz	0.0010 @Frequency 60 Hz	ASTM D150
Arc Resistance	100 sec	100 sec	ASTM D495

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