

Chang Chun Plastic PBT2000 Fire Retardant PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 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-PBT2000-Fire-Retardant-PBT.php

Physical Properties	Metric	English	Comments
Density	1.39 - 1.41 g/cc	0.0502 - 0.0509 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.013 - 0.020 cm/cm	0.013 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ASTM D785
Tensile Strength, Ultimate	50.0 - 70.0 MPa	7250 - 10200 psi	ASTM D638
Elongation at Break	7.0 - 9.0 %	7.0 - 9.0 %	ASTM D638
Flexural Yield Strength	70.0 - 80.0 MPa	10200 - 11600 psi	ASTM D790
Flexural Modulus	2.00 - 3.00 GPa	290 - 435 ksi	ASTM D790
Izod Impact, Notched	0.250 - 0.340 J/cm @Thickness 6.35 mm	0.468 - 0.637 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	50.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	ASTM D696
Melting Point	225 °C	437 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/32 in.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+16$ ohm-cm	$\geq 1.00\text{e}+16$ ohm-cm	ASTM D257

Surface Resistance Electrical Properties	$\geq 1.00e+14$ ohm Metric	$\geq 1.00e+14$ ohm English	ASTM D257 Comments
Dielectric Constant	3.2 @Frequency 60 Hz	3.2 @Frequency 60 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 2.00 mm	508 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.0010 @Frequency 60 Hz	0.0010 @Frequency 60 Hz	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495

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