

Chang Chun Plastic PBT4815 Fire Retardant & 15% 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-PBT4815-Fire-Retardant-15-Glass-Fiber-Enforced-Grade-PBT.php

Physical Properties	Metric	English	Comments
Density	1.43 - 1.52 g/cc	0.0517 - 0.0549 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.020 cm/cm	0.0040 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	93	93	ASTM D785
Tensile Strength, Ultimate	90.0 - 110 MPa	13100 - 16000 psi	ASTM D638
Elongation at Break	4.0 - 5.5 %	4.0 - 5.5 %	ASTM D638
Flexural Yield Strength	140 - 180 MPa	20300 - 26100 psi	ASTM D790
Flexural Modulus	4.50 - 6.50 GPa	653 - 943 ksi	ASTM D790
Izod Impact, Notched	0.500 - 0.700 J/cm @Thickness 6.35 mm	0.937 - 1.31 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	30.6 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ASTM D696
Melting Point	225 $^{\circ}\text{C}$	437 $^{\circ}\text{F}$	DSC
Deflection Temperature at 0.46 MPa (66 psi)	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 $^{\circ}\text{C}$	401 $^{\circ}\text{F}$	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	3.3	3.3	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.0010	0.0010	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	90 sec	90 sec	ASTM D495

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