

Polyram RamSter PF320G4 PBT, 20% Glass Fiber, Flame Retardant

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

Material Notes:

20% Glass fiber reinforced, flame retardant PBT for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamSter-PF320G4-PBT-20-Glass-Fiber-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	DIN 53479
Water Absorption	0.15 %	0.15 %	DIN 53495
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23° C, 50% RH; DIN 53714
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 250 °C	15 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	ASTM-D638
Elongation at Break	3.0 %	3.0 %	ASTM-D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	ASTM-D790
Izod Impact, Notched	0.750 J/cm @Temperature 23.0 °C	1.41 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	DIN 53461
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
Glow Wire Test	960 °C	1760 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	DIN 53482
Dielectric Constant	3.4 @Frequency 1e+6 Hz	3.4 @Frequency 1e+6 Hz	VDE 0303/4
Dielectric Strength	29.0 kV/mm	737 kV/in	VDE 0303/4

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