

Polyram RamSter PF320G6 PBT, 30% Glass Fiber, Flame Retardant

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

Material Notes:

30% 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-PF320G6-PBT-30-Glass-Fiber-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	DIN 53479
Water Absorption	0.50 %	0.50 %	DIN 53495
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23° C, 50% RH; DIN 53714
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 250 °C	20 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	140 MPa	20300 psi	ASTM-D638
Elongation at Break	3.0 %	3.0 %	ASTM-D638
Flexural Strength	170 MPa	24700 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM-D790
Izod Impact, Notched	1.00 J/cm @Temperature 23.0 °C	1.87 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	3.4	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	29.0 kV/mm	737 kV/in	VDE 0303/4

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