

Polyram RamSter PF300J50 PBT, 50% Glass Fiber + Glass beads

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Bead Filled

Material Notes:

50% Glass-fiber and glass beads reinforced PBT.Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamSter-PF300J50-PBT-50-Glass-Fiber-Glass-beads.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	DIN 53479
Water Absorption	0.40 %	0.40 %	DIN 53495
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23° C, 50% RH; DIN 53714
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Melt Flow	4.0 g/10 min @Load 5.00 kg, Temperature 250 °C	4.0 g/10 min @Load 11.0 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	ASTM-D638
Elongation at Break	2.0 %	2.0 %	ASTM-D638
Flexural Strength	165 MPa	23900 psi	ASTM D790
Flexural Modulus	8.50 GPa	1230 ksi	ASTM-D790
Izod Impact, Notched	1.25 J/cm @Temperature 23.0 °C	2.34 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	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Glow Wire Test	750 °C	1380 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	DIN 53482
Dielectric Constant	4.0	4.0	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	VDE 0303/4

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