

Polyram RamSter PF306G6 PBT, 30% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

30% Glass fiber reinforced, low viscosity PBT for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamSter-PF306G6-PBT-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ISO 2577
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 250 °C	18 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	135 MPa	19600 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	9.90 GPa	1440 ksi	ISO 527
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	ISO 178
Izod Impact, Notched (ISO)	9.20 kJ/m ² @Temperature -30.0 °C	4.38 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	6.50 J/cm ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179
	6.50 J/cm ² @Temperature -30.0 °C	30.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.870 J/cm ² @Temperature -30.0 °C	4.14 ft-lb/in ² @Temperature -22.0 °F	ISO 179

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flame Spread	30 mm/min	1.2 in/min	FMVSS302
Glow Wire Test	650 °C	1200 °F	GWFI; IEC 60695

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Dielectric Constant	3.8	3.8	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60250

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