

Polyram PlusTek PB340S4 Nylon 6 for Injection Molding, 20% Glass-Beads Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Bead Filled

Material Notes:

20% Glass-beads reinforced, Nylon 6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB340S4-Nylon-6-for-Injection-Molding-20-Glass-Beads-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 %	1.8 %	50% RH; ISO 62
Water Absorption at Saturation	5.8 %	5.8 %	ISO 62
Linear Mold Shrinkage	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ISO 75
Deflection Temperature at 1.8 MPa	90.0 °C	194 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	ISO 75 Comments
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
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
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

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