

Polyram PlusTek PB350M4 Nylon 6, 20% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Mineral Filled

Material Notes:

20% mineral filled polyamide 6 for injection molding applicationsInformation provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB350M4-Nylon-6-20-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in³	DIN 53479
Water Absorption	7.2 %	7.2 %	DIN 53495
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM-D785
Tensile Strength, Yield	85.0 MPa	12300 psi	ASTM-D638
Elongation at Break	4.0 %	4.0 %	ASTM-D638
Flexural Strength	130 MPa	18900 psi	ASTM D790
Flexural Modulus	3.50 GPa	508 ksi	ASTM-D790
Izod Impact, Notched	0.500 J/cm @Temperature 23.0 °C	0.937 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	
Maximum Service Temperature, Air	70.0 °C	158 °F	Continuous Use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	DIN 53461
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DIN 53482
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	DIN 53482
Dielectric Constant	3.5	3.5	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	100 kV/mm	2540 kV/in	VDE 0303/4

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