

Polyram PlusTek PB500 Nylon 6, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Flame retardant polyamide 6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB500-Nylon-6-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	DIN 53479
Water Absorption	7.6 %	7.6 %	DIN 53495
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.010 - 0.014 cm/cm	0.010 - 0.014 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM-D785
Tensile Strength, Yield	80.0 MPa	11600 psi	ASTM-D638
Elongation at Break	15 %	15 %	ASTM-D638
Flexural Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	3.00 GPa	435 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	90.0 °C	194 °F	Continuous Use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	DIN 53461
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @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+13 ohm	1.00e+13 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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