

Polyram PA500 Nylon 6.6, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Flame retardant polyamide 6.6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PA500-Nylon-66-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	DIN 53479
Water Absorption	7.0 %	7.0 %	DIN 53495
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0090 - 0.016 cm/cm	0.0090 - 0.016 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM-D785
Tensile Strength, Yield	85.0 MPa	12300 psi	ASTM-D638
Elongation at Break	20 %	20 %	ASTM-D638
Flexural Strength	135 MPa	19600 psi	ASTM D790
Flexural Modulus	3.20 GPa	464 ksi	ASTM-D790
Izod Impact, Notched	0.450 J/cm @Temperature 23.0 °C	0.843 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	
Maximum Service Temperature, Air	100 °C	212 °F	Continuous Use
	>= 180 °C	>= 356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °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+12 ohm-cm	1.00e+12 ohm-cm	DIN 53482
Dielectric Constant	3.3	3.3	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	VDE 0303/4

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