

Polyram PlusTek PD100 Nylon 12, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Outstanding polyamide 12 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-PD100-Nylon-12-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	DIN 53479
Moisture Absorption at Equilibrium	0.70 %	0.70 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM-D785
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM-D638
Elongation at Break	20 %	20 %	ASTM-D638
Flexural Strength	25.0 MPa	3630 psi	ASTM D790
Flexural Modulus	0.450 GPa	65.3 ksi	ASTM-D790
Izod Impact, Notched	1.50 J/cm @Temperature 23.0 °C	2.81 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	165 - 175 °C	329 - 347 °F	
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °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+13 ohm	1.00e+13 ohm	DIN 53482

Electrical Properties	^{3.5} Metric	^{3.5} English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	100 kV/mm	2540 kV/in	VDE 0303/4

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