

Polyram PlusTek PA108 Nylon6/6.6 Alloy for Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , Unreinforced

Material Notes:

Good surface finish Nylon 6/6.6 alloy for injection molding. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA108-Nylon666-Alloy-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH; ISO 62
Water Absorption at Saturation	8.5 %	8.5 %	ISO 62
Linear Mold Shrinkage	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Flexural Strength	140 MPa	20300 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75
Flammability, UL94	V-2	V-2	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	750 °C	1380 °F	GWFI; IEC 60695

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	120 kV/mm	3050 kV/in	IEC 60250

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