

Polyram PlusTek PA355M6 Nylon 6.6 for Injection Molding, 30% Mineral Filled, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Mineral Filled

Material Notes:

30% Minerals filled, flame retardant Nylon 6.6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA355M6-Nylon-66-for-Injection-Molding-30-Mineral-Filled-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 %	1.8 %	50% RH; ISO 62
Water Absorption at Saturation	5.5 %	5.5 %	ISO 62
Linear Mold Shrinkage	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 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
	220 °C	428 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	ISO 75
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	85.0 kV/mm	2160 kV/in	IEC 60250

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