

Polyram PlusTek PB845 Nylon 6 for Injection Molding, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Impact modified Nylon 6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB845-Nylon-6-for-Injection-Molding-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.5 %	2.5 %	50% RH; ISO 62
Water Absorption at Saturation	8.0 %	8.0 %	ISO 62
Linear Mold Shrinkage	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
Elongation at Break	55 %	55 %	ISO 527
Tensile Modulus	2.20 GPa	319 ksi	ISO 527
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	2.11 GPa	306 ksi	ISO 178
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flame Spread			FMVSS302

Thermal Properties	10 mm/min Metric	0.39 in/min English	Comments
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	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	100 kV/mm	2540 kV/in	IEC 60250

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