

Polyram PlusTek PB826G3 Nylon 6 for Injection Molding, 15% Glass-fiber Reinforced, Impact Modified and UV Stabilized

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

Material Notes:

15% Glass fiber reinforced, impact modified and UV stabilized Nylon 6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB826G3-Nylon-6-for-Injection-Molding-15-Glass-fiber-Reinforced-Impact-Modified-and-UV-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.5 %	2.5 %	50% RH; ISO 62
Water Absorption at Saturation	7.3 %	7.3 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85	85	
Tensile Strength, Yield	100 MPa	14500 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Tensile Modulus	4.90 GPa	711 ksi	ISO 527
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	4.20 GPa	609 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -70.0 °C	33.3 ft-lb/in ² @Temperature -94.0 °F	ISO 179
	7.20 J/cm ² @Temperature 23.0 °C	34.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.800 J/cm ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
Maximum Service Temperature, Air	110 °C	230 °F	Continuous use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ISO 75
Vicat Softening Point	215 °C	419 °F	ISO 306
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flame Spread	20 mm/min	0.79 in/min	FMVSS302

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

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