

Polyram PlusTek PA862 Nylon 6.6 for Injection Molding, High Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

High impact modified 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-PA862-Nylon-66-for-Injection-Molding-High-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ISO 62
Water Absorption at Saturation	6.7 %	6.7 %	ISO 62
Linear Mold Shrinkage	0.017 - 0.025 cm/cm	0.017 - 0.025 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	
Tensile Strength, Yield	70.0 MPa	10200 psi	ISO 527
Elongation at Break	50 %	50 %	ISO 527
Tensile Modulus	2.50 GPa	363 ksi	ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	70.0 °C	158 °F	Continuous use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	219 °C	426 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flame Spread			FMVSS302

Thermal Properties	12.2 mm/min Metric	0.480 in/min English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.1 @Frequency 1.00e+6 Hz	3.1 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	90.0 kV/mm	2290 kV/in	IEC 60250

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