

Polyram PlusTek RA843 Nylon 6.6, Impact Modified

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

Material Notes:

Impact modified polyamide 6.6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-RA843-Nylon-66-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	DIN 53479
Water Absorption	6.0 %	6.0 %	DIN 53495
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.015 - 0.019 cm/cm	0.015 - 0.019 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM-D785
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM-D638
Elongation at Break	20 %	20 %	ASTM-D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM-D790
Izod Impact, Notched	1.60 J/cm @Temperature 23.0 °C	3.00 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	
Maximum Service Temperature, Air	110 °C	230 °F	Continuous Use
	>= 180 °C	>= 356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	DIN 53461
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	DIN 53482
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	DIN 53482
Dielectric Constant	3.2	3.2	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	90.0 kV/mm	2290 kV/in	VDE 0303/4

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