

Polyram PlusTek PB901 Nylon 6, Extruded cable coating

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Extruded

Material Notes:

Polyamide 6 for very thin electrical extruded cable coating Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB901-Nylon-6-Extruded-cable-coating.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DIN 53479
Water Absorption	1.9 %	1.9 %	DIN 53495
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	ASTM-D638
Elongation at Break	100 %	100 %	ASTM-D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM-D790
Izod Impact, Notched	0.300 J/cm @Temperature 23.0 °C	0.562 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous Use
	150 °C	302 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	DIN 53461
Flammability, UL94	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DIN 53482

Surface Resistance Electrical Properties	1.00e+15 ohm Metric	1.00e+15 ohm English	DIN 53482 Comments
Dielectric Constant	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	VDE 0303/4
Dielectric Strength	100 kV/mm	2540 kV/in	VDE 0303/4

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