

Unitika EX-1222 PA6, Dry

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

Material Notes:

High-impact nylon Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-EX-1222-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	1.5 % @Time 86400 sec	1.5 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.012 cm/cm @Thickness 3.20 mm	0.012 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.014 cm/cm @Thickness 3.20 mm	0.014 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	ISO 527-1/-2
Elongation at Break	115 %	115 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	1.90 GPa	276 ksi	ISO 527-1/-2
Flexural Strength	62.0 MPa	8990 psi	ISO 178
Flexural Modulus	1.80 GPa	261 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179-1
Charpy Impact, Notched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+13 ohm-cm	3.00e+13 ohm-cm	IEC 60093
Dielectric Strength	42.1 kV/mm @Thickness 1.00 mm	1070 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250

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