

Unitika CX-2500 PA6, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Transparent nylon Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-CX-2500-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Water Absorption	0.70 % @Time 86400 sec	0.70 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.3 %	1.3 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm @Thickness 3.20 mm	0.0070 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm @Thickness 3.20 mm	0.013 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527-1/-2
Elongation at Break	60 %	60 %	ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	ISO 527-1/-2
Flexural Strength	126 MPa	18300 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	77.0 μm/m-°C	42.8 μin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.3 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	33.0 kV/mm @Thickness 1.00 mm	838 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.060 @Frequency 1.00e+6 Hz	0.060 @Frequency 1.00e+6 Hz	IEC 60250

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