

Unitika A175G15 PA66, 15% Glass Fiber Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A175G15-PA66-15-Glass-Fiber-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.9 %	1.9 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	5.70 GPa	827 ksi	ISO 527-1/-2
Flexural Strength	188 MPa	27300 psi	ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 µm/m-°C	23.3 µin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	252 °C	486 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	229 °C	444 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	
	@Thickness 0.840 mm	@Thickness 0.0331 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Dielectric Constant	3.4 @Frequency 1.00e+6 Hz	3.4 @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

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