

Unitika BV2120G30 PA66, 30% Glass Fiber Reinforced, Flame Retardant, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-BV2120G30-PA66-30-Glass-Fiber-Reinforced-Flame-Retardant-Dry.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.90 %	0.90 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ISO 2039
Tensile Strength at Break	150 MPa	21800 psi	ISO 527-1/-2
Elongation at Break	2.1 %	2.1 %	ISO 527-1/-2
Tensile Modulus	12.2 GPa	1770 ksi	ISO 527-1/-2
Flexural Strength	250 MPa	36300 psi	ISO 178
Flexural Modulus	11.0 GPa	1600 ksi	ISO 178
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	256 °C	493 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	238 °C	460 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	
	@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	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	28.0 kV/mm @Thickness 1.00 mm	711 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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