

Polymer Resources NY66-IM1-G33 Nylon 66, 33% Glass Reinforced, Toughened

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Nylon 66, 33% Glass Reinforced, Toughened and Lubricated Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Nylon grades are tested dry as molded (DAM). Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-NY66-IM1-G33-Nylon-66-33-Glass-Reinforced-Toughened.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	128 MPa	18500 psi	ASTM D638
Tensile Strength, Yield	128 MPa	18500 psi	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Temperature 22.8 °C	2.50 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	243 °C	470 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB @Thickness 3.17 mm	HB @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 282 °C	520 - 540 °F	
Middle Barrel Temperature	282 - 299 °C	540 - 570 °F	

Front Barrel Temperature Processing Properties	282 - 304 °C Metric	540 - 580 °F English	Comments
Melt Temperature	288 - 304 °C	550 - 580 °F	
Mold Temperature	82.2 - 104 °C	180 - 220 °F	
Drying Temperature	73.9 - 85.0 °C	165 - 185 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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