

Polymer Resources NY6-G43 Nylon 6, 43% Glass Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

Nylon 6, 43% Glass Reinforced, 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-NY6-G43-Nylon-6-43-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0070 cm/cm	0.0020 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	221 MPa	32000 psi	ASTM D638
Tensile Strength, Yield	221 MPa	32000 psi	ASTM D638
Flexural Strength	290 MPa	42000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm @Temperature 22.8 °C	2.80 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	238 °C	460 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	221 °C	430 °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	232 - 249 °C	450 - 480 °F	
Middle Barrel Temperature	243 - 260 °C	470 - 500 °F	

Front Barrel Temperature Processing Properties	249 - 268 °C Metric	480 - 515 °F English	Comments
Melt Temperature	249 - 268 °C	480 - 515 °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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