

Polymer Resources NY6-G33-[color]H Nylon, 33% Glass Reinforced, Heat Stabilized (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

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-G33-colorH-Nylon-33-Glass-Reinforced-Heat-Stabilized-DAM.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	ASTM D638
Tensile Strength, Yield	193 MPa	28000 psi	ASTM D638
Flexural Strength	290 MPa	42000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	425 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 268 °C	480 - 515 °F	
Middle Barrel Temperature	243 - 260 °C	470 - 500 °F	
Front Barrel Temperature	249 - 268 °C	480 - 515 °F	
Melt Temperature	249 - 268 °C	480 - 515 °F	
Mold Temperature	65.6 - 104 °C	150 - 220 °F	
Drying Temperature	73.9 - 85.0 °C	165 - 185 °F	

Processing Properties	Metric	English	Comments
Dry Time	3- 4 hour	3- 4 hour	

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