

Polymer Resources NY66-IMG13-[color]H Nylon, 13% Glass Reinforced, Impact Modified, Heat Stabilized (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 10% 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-NY66-IMG13-colorH-Nylon-13-Glass-Reinforced-Impact-Modified-Heat-Stabilized-DAM.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.5 MPa	14000 psi	ASTM D638
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	3.72 GPa	540 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)	254 °C	490 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	229 °C	445 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 282 °C	520 - 540 °F	
Middle Barrel Temperature	277 - 288 °C	530 - 550 °F	
Front Barrel Temperature	293 - 304 °C	560 - 580 °F	
Melt Temperature	288 - 299 °C	550 - 570 °F	
Mold Temperature	65.6 - 104 °C	150 - 220 °F	

Drying Temperature Processing Properties	73.9 - 85.0 °C Metric	165 - 185 °F English	Comments
Dry Time	3 - 4 hour	3 - 4 hour	

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