

Polymer Resources NY6-IM1-[color]H Nylon, Impact Modified, Heat Stabilized (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

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-IM1-colorH-Nylon-Impact-Modified-Heat-Stabilized-DAM.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.016 - 0.020 cm/cm	0.016 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.1 MPa	9000 psi	ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	335 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.8 °C	145 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 - 246 °C	430 - 475 °F	
Middle Barrel Temperature	238 - 254 °C	460 - 490 °F	
Front Barrel Temperature	243 - 260 °C	470 - 500 °F	
Melt Temperature	238 - 268 °C	460 - 515 °F	
Mold Temperature	65.6 - 82.2 °C	150 - 180 °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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