

Polymer Resources NY6-IM1 Nylon 6, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Nylon 6, Impact Modified Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, unpigmented, 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-Nylon-6-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	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 @Temperature 22.8 °C	3.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	36.2 J	26.7 ft-lb	ASTM D3029

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 @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	221 - 246 °C	430 - 475 °F	
Middle Barrel Temperature	238 - 254 °C	460 - 490 °F	

Processing Properties	Metric	English	Comments
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	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0003	

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