

Polymer Resources NY66-IM2 Impact Modified Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Nylon 66, Superior Impact Modified, 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-NY66-IM2-Impact-Modified-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Linear Mold Shrinkage	0.017 - 0.020 cm/cm	0.017 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.3 MPa	7300 psi	ASTM D638
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Flexural Strength	62.1 MPa	9000 psi	ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm @Temperature 22.8 °C	16.0 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)	213 °C	415 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.3 °C	155 °F	ASTM D648
UL RTI, Electrical	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	UL 746
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	UL 746
	65.0 °C	149 °F	

Thermal Properties	Metric	English	UL 746 Comments
UL RTI, Mechanical without Impact	65.0 °C	149 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
	65.0 °C	149 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	266 - 277 °C	510 - 530 °F	
Middle Barrel Temperature	271 - 282 °C	520 - 540 °F	
Front Barrel Temperature	277 - 288 °C	530 - 550 °F	
Melt Temperature	277 - 293 °C	530 - 560 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °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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