

Polymer Resources NY66-IM2-LM Nylon, Preliminary Data Sheet, Low Flexural Modulus, High Impact (DAM)

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

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-IM2-LM-Nylon-Preliminary-Data-Sheet-Low-Flexural-Modulus-High-Impact-DAM.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	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	41.4 MPa	6000 psi	ASTM D638
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM D638
Flexural Strength	51.7 MPa	7500 psi	ASTM D790
Flexural Modulus	1.36 GPa	197 ksi	ASTM D790
Izod Impact, Notched	9.08 J/cm	17.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	202 °C	395 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.2 °C	135 °F	ASTM D648

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