

Polymer Resources NY66-MD1 Nylon 66, 1% MoS2

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, MoS2 Filled

Material Notes:

Nylon 66, 1% Molybdenum Disulfide for Lubrication and Wear 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-MD1-Nylon-66-1-MoS2.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage	0.012 - 0.018 cm/cm	0.012 - 0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.7 MPa	12000 psi	ASTM D638
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	3.62 GPa	525 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Temperature 22.8 °C	0.800 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	425 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °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	266 - 277 °C	510 - 530 °F	
Middle Barrel Temperature	271 - 282 °C	520 - 540 °F	

Front Barrel Temperature Processing Properties	277 - 288 °C Metric	530 - 550 °F English	Comments
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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