

Polymer Resources NY6-M40-[color]-H Nylon 6, 40% Mineral Filled, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Mineral Filled , Nylon 6, Heat Stabilized

Material Notes:

Nylon 6, 40% Mineral Filled, Heat Stabilized, 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-NY6-M40-color-H-Nylon-6-40-Mineral-Filled-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	89.6 MPa	13000 psi	ASTM D638
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Flexural Strength	128 MPa	18500 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Temperature 22.8 °C	1.10 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	166 °C	330 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °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	232 - 249 °C	450 - 480 °F	

Middle Barrel Temperature Processing Properties	243 - 260 °C Metric	470 - 500 °F English	Comments
Front Barrel Temperature	249 - 268 °C	480 - 515 °F	
Melt Temperature	249 - 271 °C	480 - 520 °F	
Mold Temperature	82.2 - 104 °C	180 - 220 °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	0.0005	

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