

Polymer Resources NY66-EX1 High Viscosity Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Extruded

Material Notes:

Nylon 66, High Viscosity (RV 220 to 260) Process: Extrusion 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-EX1-High-Viscosity-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 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	86.2 MPa	12500 psi	ASTM D638
Tensile Strength, Yield	86.2 MPa	12500 psi	ASTM D638
Flexural Strength	121 MPa	17500 psi	ASTM D790
Flexural Modulus	3.28 GPa	475 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Temperature 22.8 °C	1.50 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	229 °C	445 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	ASTM D648
Flammability, UL94	V-2 @Thickness 1.59 mm	V-2 @Thickness 0.0626 in	
	V-2 @Thickness 3.17 mm	V-2 @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	266 - 271 °C	510 - 520 °F	
Middle Barrel Temperature	271 - 277 °C	520 - 530 °F	
Front Barrel Temperature	277 - 282 °C	530 - 540 °F	

Processing Properties	Metric ¹⁰⁴ °C	English ¹¹⁰ °F	Comments
Drying Temperature	73.9 - 85.0 °C	165 - 185 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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