

Polymer Resources NY66-GP1 General Purpose Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

General Purpose Nylon 66, 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-GP1-General-Purpose-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	82.7 MPa	12000 psi	ASTM D638
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 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
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 746
UL RTI, Mechanical with Impact	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 746
	65.0 °C	149 °F	

UL RTI Mechanical without Impact Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	UL 746 Comments
	65.0 °C	149 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	
	@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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