

Polymer Resources NY6/12-GP1 General Purpose Nylon 612

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Unreinforced

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-NY612-GP1-General-Purpose-Nylon-612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.5 MPa	8200 psi	ASTM D638
Tensile Strength, Yield	56.5 MPa	8200 psi	ASTM D638
Flexural Strength	49.0 MPa	7100 psi	ASTM D790
Flexural Modulus	1.34 GPa	195 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature 22.8 °C	2.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	171 °C	340 °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	221 - 232 °C	430 - 450 °F	
Middle Barrel Temperature	227 - 238 °C	440 - 460 °F	
Front Barrel Temperature	232 - 243 °C	450 - 470 °F	

Processing Properties	Metric ⁸⁸ °C	English ¹⁰ °F	Comments
Mold Temperature	65.6 - 76.7 °C	150 - 170 °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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