

## Polymer Resources NY6/12-G43 Nylon 612, 43% Glass Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Glass Fiber Filler

### 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-G43-Nylon-612-43-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Polymer-Resources-NY612-G43-Nylon-612-43-Glass-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ASTM D638
Tensile Strength, Yield	190 MPa	27600 psi	ASTM D638
Flexural Strength	269 MPa	39000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Temperature 22.8 °C	3.00 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)	202 °C	395 °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	277 - 288 °C	530 - 550 °F	
Middle Barrel Temperature	282 - 293 °C	540 - 560 °F	
Front Barrel Temperature	288 - 299 °C	550 - 570 °F	

Processing Properties	Metric <sup>99</sup> °C	English <sup>70</sup> °F	Comments
Mold Temperature	71.1 - 121 °C	160 - 250 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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