

## Overview of materials for Nylon 12, Glass Bead Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Glass Bead Filled

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 12, Glass Bead Filled". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Overview-of-materials-for-Nylon-12-Glass-Bead-Filled.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Nylon-12-Glass-Bead-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.21 - 1.44 g/cc	0.0437 - 0.0520 lb/in <sup>3</sup>	Average value: 1.32 g/cc Grade Count:6
Water Absorption	0.800 - 1.20 %	0.800 - 1.20 %	Average value: 1.05 % Grade Count:4
Melt Flow	5.00 - 70.8 g/10 min	5.00 - 70.8 g/10 min	Average value: 37.9 g/10 min Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	39.0 - 52.0 MPa	5660 - 7540 psi	Average value: 46.5 MPa Grade Count:6
Elongation at Break	18.0 - 32.0 %	18.0 - 32.0 %	Average value: 22.8 % Grade Count:6
Elongation at Yield	4.00 - 10.0 %	4.00 - 10.0 %	Average value: 6.25 % Grade Count:6
Modulus of Elasticity	1.60 - 3.64 GPa	232 - 528 ksi	Average value: 2.37 GPa Grade Count:6
Charpy Impact Unnotched	3.80 - 17.0 J/cm <sup>2</sup>	18.1 - 80.9 ft-lb/in <sup>2</sup>	Average value: 10.1 J/cm <sup>2</sup> Grade Count:6
	4.45 - 7.60 J/cm <sup>2</sup> @Temperature -30.0 - 30.0 °C	21.2 - 36.2 ft-lb/in <sup>2</sup> @Temperature -22.0 - 86.0 °F	Average value: 5.68 J/cm <sup>2</sup> Grade Count:6
Charpy Impact, Notched	0.420 - 0.560 J/cm <sup>2</sup>	2.00 - 2.67 ft-lb/in <sup>2</sup>	Average value: 0.490 J/cm <sup>2</sup> Grade Count:6
	0.300 - 0.460 J/cm <sup>2</sup> @Temperature -30.0 - 30.0 °C	1.43 - 2.19 ft-lb/in <sup>2</sup> @Temperature -22.0 - 86.0 °F	Average value: 0.380 J/cm <sup>2</sup> Grade Count:6

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 140 µm/m-°C	33.3 - 77.8 µin/in-°F	Average value: 97.5 µm/m-°C Grade Count:4

Melting Point Thermal Properties	174 - 178 °C Metric	345 - 352 °F English	Average value: 175 °C Grade Count:6 Comments
Deflection Temperature at 1.8 MPa (264 psi)	50.0 - 68.0 °C	122 - 154 °F	Average value: 60.8 °C Grade Count:4
Flammability, UL94	HB	HB	Grade Count:6

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	Average value: 1.00e+13 ohm-cm Grade Count:4
Surface Resistance	1.00e+12 - 1.00e+13 ohm	1.00e+12 - 1.00e+13 ohm	Average value: 5.50e+12 ohm Grade Count:4
Dielectric Strength	35.0 - 40.0 kV/mm	889 - 1020 kV/in	Average value: 37.5 kV/mm Grade Count:4
Comparative Tracking Index	600 V	600 V	Average value: 600 V Grade Count:4

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China