

Overview of materials for Nylon 11 with 10% Glass Fiber Filler

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with 10% Glass Fiber Filler

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 11 with 10% Glass Fiber Filler".

Specific grades with glass content between 5% and 14% are included. 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-11-with-10-Glass-Fiber-Filler.php

Physical Properties	Metric	English	Comments
Density	1.10 - 1.42 g/cc	0.0397 - 0.0513 lb/in ³	Average value: 1.26 g/cc Grade Count:4
Linear Mold Shrinkage	0.00400 - 0.00800 cm/cm	0.00400 - 0.00800 in/in	Average value: 0.00583 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	Average value: 108 Grade Count:3
Tensile Strength, Ultimate	58.6 - 82.7 MPa	8500 - 12000 psi	Average value: 66.4 MPa Grade Count:4
Elongation at Break	2.00 - 17.3 %	2.00 - 17.3 %	Average value: 8.22 % Grade Count:6
Modulus of Elasticity	2.76 - 4.14 GPa	400 - 600 ksi	Average value: 3.22 GPa Grade Count:6
Flexural Yield Strength	82.7 - 100 MPa	12000 - 14500 psi	Average value: 92.2 MPa Grade Count:4
Flexural Modulus	2.41 - 3.45 GPa	350 - 500 ksi	Average value: 3.02 GPa Grade Count:4
Izod Impact, Notched	0.534 - 0.747 J/cm	1.00 - 1.40 ft-lb/in	Average value: 0.614 J/cm Grade Count:4
Izod Impact, Unnotched	3.74 - 5.87 J/cm	7.00 - 11.0 ft-lb/in	Average value: 4.81 J/cm Grade Count:4
Charpy Impact Unnotched	9.17 - 10.0 J/cm ² @Temperature -30.0 - - 30.0 °C	43.6 - 47.6 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 9.59 J/cm ² Grade Count:2
Charpy Impact, Notched	0.440 - 0.550 J/cm ² @Temperature -30.0 - - 30.0 °C	2.09 - 2.62 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 0.495 J/cm ² Grade Count:2

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:4

Processing Properties	Metric	English	Comments
Mold Temperature	37.8 - 65.6 °C	100 - 150 °F	Average value: 51.7 °C Grade Count:4
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:4

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