

Overview of materials for Nylon 11 with 30% Glass Fiber Filler

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with 30% Glass Fiber Filler

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 11 with 30% Glass Fiber Filler".

Specific grades with glass content between 25% and 34% 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-30-Glass-Fiber-Filler.php

Physical Properties	Metric	English	Comments
Density	1.25 - 1.44 g/cc	0.0452 - 0.0520 lb/in ³	Average value: 1.29 g/cc Grade Count:5
Water Absorption	0.100 - 1.30 %	0.100 - 1.30 %	Average value: 0.523 % Grade Count:3
Linear Mold Shrinkage	0.00100 - 0.00500 cm/cm	0.00100 - 0.00500 in/in	Average value: 0.00288 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	86.2 - 115 MPa	12500 - 16700 psi	Average value: 101 MPa Grade Count:4
Elongation at Break	2.50 - 8.00 %	2.50 - 8.00 %	Average value: 5.30 % Grade Count:5
Modulus of Elasticity	6.55 - 8.00 GPa	950 - 1160 ksi	Average value: 7.31 GPa Grade Count:4
Flexural Yield Strength	124 - 179 MPa	18000 - 26000 psi	Average value: 145 MPa Grade Count:3
Flexural Modulus	5.52 - 6.07 GPa	800 - 880 ksi	Average value: 5.70 GPa Grade Count:3
Izod Impact, Notched	1.07 - 1.76 J/cm	2.00 - 3.30 ft-lb/in	Average value: 1.39 J/cm Grade Count:3
Charpy Impact Unnotched	8.39 - 8.39 J/cm ² @Temperature -30.0 - -30.0 °C	39.9 - 39.9 ft-lb/in ² @Temperature -22.0 - -22.0 °F	Average value: 8.39 J/cm ² Grade Count:1
Charpy Impact, Notched	1.20 - 1.20 J/cm ² @Temperature -30.0 - -30.0 °C	5.71 - 5.71 ft-lb/in ² @Temperature -22.0 - -22.0 °F	Average value: 1.20 J/cm ² Grade Count:1

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 54.0 µm/m-°C	27.8 - 30.0 µin/in-°F	Average value: 52.7 µm/m-°C Grade

Thermal Properties	Metric	English	Count:3 Comments
Deflection Temperature at 0.46 MPa (66 psi)	180 - 192 °C	356 - 378 °F	Average value: 185 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	175 - 177 °C	347 - 350 °F	Average value: 176 °C Grade Count:3
Flammability, UL94	HB	HB	Grade Count:4

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+11 - 7.00e+13 ohm-cm	1.00e+11 - 7.00e+13 ohm-cm	Average value: 2.67e+13 ohm-cm Grade Count:3
Dielectric Strength	17.7 - 45.0 kV/mm	450 - 1140 kV/in	Average value: 27.5 kV/mm Grade Count:3

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