

Overview of materials for Nylon 11 with 40% Glass Fiber Filler

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with 40% Glass Fiber Filler

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 11 with 40% Glass Fiber Filler".

Specific grades with glass content between 35% and 44% 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-40-Glass-Fiber-Filler.php

Physical Properties	Metric	English	Comments
Density	1.35 - 1.42 g/cc	0.0488 - 0.0513 lb/in ³	Average value: 1.38 g/cc Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	82.7 - 146 MPa	12000 - 21200 psi	Average value: 114 MPa Grade Count:4
Elongation at Break	2.00 - 4.00 %	2.00 - 4.00 %	Average value: 3.50 % Grade Count:4
Modulus of Elasticity	8.27 - 12.4 GPa	1200 - 1800 ksi	Average value: 10.2 GPa Grade Count:4
Charpy Impact Unnotched	7.29 - 7.50 J/cm ² @Temperature -30.0 - - 30.0 °C	34.7 - 35.7 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 7.39 J/cm ² Grade Count:2
Charpy Impact, Notched	0.980 - 1.02 J/cm ² @Temperature -30.0 - - 30.0 °C	4.66 - 4.85 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 1.00 J/cm ² Grade Count:2

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

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