

Overview of materials for Nylon 11 with Graphite Filler

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with Graphite Filler

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 11 with Graphite Filler". 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-Graphite-Filler.php

Physical Properties	Metric	English	Comments
Density	1.07 - 1.17 g/cc	0.0387 - 0.0423 lb/in ³	Average value: 1.11 g/cc Grade Count:4
Water Absorption	0.200 - 1.70 %	0.200 - 1.70 %	Average value: 0.710 % Grade Count:3

Mechanical Properties	Metric	English	Comments
Elongation at Break	6.00 - 300 %	6.00 - 300 %	Average value: 95.8 % Grade Count:4
Modulus of Elasticity	1.38 - 2.23 GPa	200 - 323 ksi	Average value: 1.91 GPa Grade Count:4
Charpy Impact Unnotched	14.2 - 15.4 J/cm ² @Temperature -30.0 - - 30.0 °C	67.6 - 73.3 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 14.8 J/cm ² Grade Count:2
Charpy Impact, Notched	0.420 - 0.460 J/cm ² @Temperature -30.0 - - 30.0 °C	2.00 - 2.19 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 0.440 J/cm ² Grade Count:2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 - 168 °C	300 - 334 °F	Average value: 157 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	54.4 - 60.0 °C	130 - 140 °F	Average value: 56.8 °C Grade Count:3
Flammability, UL94	HB - V-2	HB - V-2	Grade Count:3

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