

Overview of materials for Nylon 12, Graphite Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Graphite Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 12, Graphite 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-Graphite-Filled.php

Physical Properties	Metric	English	Comments
Density	1.02 - 1.08 g/cc	0.0368 - 0.0390 lb/in ³	Average value: 1.05 g/cc Grade Count:5
Melt Flow	2.10 - 61.5 g/10 min	2.10 - 61.5 g/10 min	Average value: 31.8 g/10 min Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	39.0 - 50.0 MPa	5660 - 7250 psi	Average value: 44.8 MPa Grade Count:4
Elongation at Break	5.00 - 50.0 %	5.00 - 50.0 %	Average value: 37.6 % Grade Count:5
Elongation at Yield	5.00 - 12.0 %	5.00 - 12.0 %	Average value: 8.50 % Grade Count:4
Modulus of Elasticity	1.36 - 8.00 GPa	197 - 1160 ksi	Average value: 3.09 GPa Grade Count:5
Charpy Impact Unnotched	6.00 J/cm ² - NB	28.6 ft-lb/in ² - NB	Average value: 9.65 J/cm ² Grade Count:4
	7.00 - 11.1 J/cm ² @Temperature -30.0 - - 30.0 °C	33.3 - 52.8 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 9.05 J/cm ² Grade Count:2
Charpy Impact, Notched	0.410 - 1.40 J/cm ²	1.95 - 6.66 ft-lb/in ²	Average value: 0.675 J/cm ² Grade Count:4
	0.400 - 1.30 J/cm ² @Temperature -30.0 - - 30.0 °C	1.90 - 6.19 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 0.635 J/cm ² Grade Count:4

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 150 µm/m-°C	44.4 - 83.3 µin/in-°F	Average value: 103 µm/m-°C Grade Count:3
Melting Point	174 - 178 °C	345 - 352 °F	Average value: 175 °C Grade Count:5

Deflection Temperature at 0.46 MPa Thermal Properties (0.10 MPa)	143 - 175 °C Metric	289 - 347 °F English	Average value: 160 °C Grade Count:3 Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 - 170 °C	149 - 338 °F	Average value: 100 °C Grade Count:3
Flammability, UL94	HB - V-2	HB - V-2	Grade Count:5

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	100 - 600 V	100 - 600 V	Average value: 433 V Grade Count:3

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