

Overview of materials for Nylon 11 with PTFE Filler

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

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.09 - 1.15 g/cc	0.0394 - 0.0415 lb/in ³	Average value: 1.11 g/cc Grade Count:5
Linear Mold Shrinkage	0.0130 - 0.0250 cm/cm	0.0130 - 0.0250 in/in	Average value: 0.0169 cm/cm Grade Count:5

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.5 - 48.3 MPa	5000 - 7000 psi	Average value: 40.7 MPa Grade Count:5
Elongation at Break	10.0 %	10.0 %	Average value: 10.0 % Grade Count:5
Modulus of Elasticity	1.38 - 1.72 GPa	200 - 250 ksi	Average value: 1.54 GPa Grade Count:5
Flexural Yield Strength	44.8 - 55.2 MPa	6500 - 8000 psi	Average value: 49.6 MPa Grade Count:5
Flexural Modulus	1.38 - 1.72 GPa	200 - 250 ksi	Average value: 1.59 GPa Grade Count:5
Izod Impact, Notched	0.534 - 0.747 J/cm	1.00 - 1.40 ft-lb/in	Average value: 0.651 J/cm Grade Count:5
Izod Impact, Unnotched	10.7 - 5340 J/cm	20.0 - 10000 ft-lb/in	Average value: 12.0 J/cm Grade Count:5

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	48.9 - 54.4 °C	120 - 130 °F	Average value: 51.1 °C Grade Count:5
Flammability, UL94	HB	HB	Grade Count:4

Processing Properties	Metric	English	Comments
Processing Temperature	216 - 282 °C	420 - 540 °F	Average value: 243 °C Grade Count:4
Mold Temperature	37.8 - 104 °C	100 - 220 °F	Average value: 71.7 °C Grade Count:5

Processing Properties	Metric	English	Comments
Injection molding	MFR 103 MPa	MFR 15000 psi	Value: 86.2 MPa Grade Count:5

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China