

Overview of materials for Nylon 66, Mineral Filled, NCG Fiber Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Mineral Filled, NCG Fiber Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 66, Mineral Filled, NCG Fiber 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-66-Mineral-Filled-NCG-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.14 - 1.38 g/cc	0.0412 - 0.0497 lb/in ³	Average value: 1.25 g/cc Grade Count:10
Filler Content	5.00 - 25.0 %	5.00 - 25.0 %	Average value: 14.4 % Grade Count:9
Water Absorption	0.700 - 1.50 %	0.700 - 1.50 %	Average value: 1.16 % Grade Count:9
Linear Mold Shrinkage	0.00100 - 0.0150 cm/cm	0.00100 - 0.0150 in/in	Average value: 0.00430 cm/cm Grade Count:10

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	68.9 - 207 MPa	10000 - 30000 psi	Average value: 116 MPa Grade Count:10
Elongation at Break	0.500 - 5.00 %	0.500 - 5.00 %	Average value: 2.03 % Grade Count:10
Modulus of Elasticity	5.17 - 13.1 GPa	750 - 1900 ksi	Average value: 8.41 GPa Grade Count:10
Flexural Yield Strength	103 - 324 MPa	15000 - 47000 psi	Average value: 172 MPa Grade Count:10
Flexural Modulus	4.48 - 12.4 GPa	650 - 1800 ksi	Average value: 7.74 GPa Grade Count:10
Izod Impact, Notched	0.374 - 2.14 J/cm	0.700 - 4.01 ft-lb/in	Average value: 0.780 J/cm Grade Count:10
Izod Impact, Unnotched	3.20 - 5.34 J/cm	6.00 - 10.0 ft-lb/in	Average value: 3.74 J/cm Grade Count:9

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	243 - 266 °C	470 - 510 °F	Average value: 251 °C Grade Count:6
Deflection Temperature at 1.8 MPa (264 psi)	232 - 260 °C	450 - 500 °F	Average value: 243 °C Grade Count:7
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:7

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 - 100 ohm-cm	1.00 - 100 ohm-cm	Average value: 14.1 ohm-cm Grade Count:10
Surface Resistance	1.00 - 1.00e+6 ohm	1.00 - 1.00e+6 ohm	Average value: 117000 ohm Grade Count:10
Static Decay	2.00 sec	2.00 sec	Average value: 2.00 sec Grade Count:7

Processing Properties	Metric	English	Comments
Processing Temperature	266 - 293 °C	510 - 560 °F	Average value: 280 °C Grade Count:9
Mold Temperature	65.6 - 107 °C	150 - 225 °F	Average value: 89.4 °C Grade Count:10
Injection Pressure	68.9 - 124 MPa	10000 - 18000 psi	Average value: 94.2 MPa Grade Count:9

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