

Overview of materials for Nylon 66, Glass Fiber/MoS2 Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/MoS2 Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 66, Glass Fiber/MoS2 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-Glass-FiberMoS2-Filled.php

Physical Properties	Metric	English	Comments
Density	1.22 - 1.65 g/cc	0.0441 - 0.0596 lb/in ³	Average value: 1.43 g/cc Grade Count:37
Filler Content	10.0 - 50.0 %	10.0 - 50.0 %	Average value: 31.0 % Grade Count:21
Water Absorption	0.400 - 1.00 %	0.400 - 1.00 %	Average value: 0.700 % Grade Count:14
Linear Mold Shrinkage	0.00100 - 0.0150 cm/cm	0.00100 - 0.0150 in/in	Average value: 0.00465 cm/cm Grade Count:33
Linear Mold Shrinkage, Transverse	0.00650 - 0.0125 cm/cm	0.00650 - 0.0125 in/in	Average value: 0.0101 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118 - 121	118 - 121	Average value: 120 Grade Count:8
Tensile Strength, Ultimate	62.1 - 228 MPa	9000 - 33000 psi	Average value: 161 MPa Grade Count:37
Elongation at Break	1.00 - 5.00 %	1.00 - 5.00 %	Average value: 2.97 % Grade Count:35
Modulus of Elasticity	4.83 - 17.2 GPa	700 - 2500 ksi	Average value: 10.3 GPa Grade Count:28
Flexural Yield Strength	103 - 331 MPa	15000 - 48000 psi	Average value: 244 MPa Grade Count:34
Flexural Modulus	4.14 - 15.5 GPa	600 - 2250 ksi	Average value: 9.47 GPa Grade Count:34
Izod Impact, Notched	0.320 - 1.71 J/cm	0.600 - 3.20 ft-lb/in	Average value: 0.912 J/cm Grade Count:33
Izod Impact, Unnotched	2.67 - 13.3 J/cm	5.00 - 25.0 ft-lb/in	Average value: 7.52 J/cm Grade Count:25
Charpy Impact Unnotched	3.00 - 6.50 J/cm ²	14.3 - 30.9 ft-lb/in ²	Average value: 5.33 J/cm ² Grade Count:3
	0.400 - 1.00 J/cm ²	1.90 - 4.76 ft-lb/in ²	Average value: 0.767 J/cm ² Grade

Charpy Impact, Notched Mechanical Properties	Metric	English	Count:3 Comments
Coefficient of Friction	0.320 - 0.750	0.320 - 0.750	Average value: 0.450 Grade Count:5
Coefficient of Friction, Static	0.360 - 0.590	0.360 - 0.590	Average value: 0.462 Grade Count:5
K (wear) Factor	24.0 - 320 x 10 ⁻⁸ mm ³ /N-M	11.9 - 159 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Average value: 102 x 10 ^{<sup>-8</sup>}

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	232 - 266 °C	450 - 510 °F	Average value: 256 °C Grade Count:21
Deflection Temperature at 1.8 MPa (264 psi)	194 - 260 °C	381 - 500 °F	Average value: 246 °C Grade Count:35
Vicat Softening Point	250 - 260 °C	482 - 500 °F	Average value: 255 °C Grade Count:3
Flammability, UL94	HB	HB	Grade Count:23

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 - 1.00e+16 ohm-cm	1.00e+14 - 1.00e+16 ohm-cm	Average value: 2.51e+15 ohm-cm Grade Count:20

Processing Properties	Metric	English	Comments
Processing Temperature	274 - 293 °C	525 - 560 °F	Average value: 284 °C Grade Count:9
Melt Temperature	270 - 310 °C	518 - 590 °F	Average value: 288 °C Grade Count:23
Mold Temperature	65.6 - 107 °C	150 - 225 °F	Average value: 87.1 °C Grade Count:30
Drying Temperature	79.4 - 107 °C	175 - 225 °F	Average value: 83.9 °C Grade Count:21
Moisture Content	0.200 %	0.200 %	Average value: 0.200 % Grade Count:14
Dew Point	-17.8 °C	0.000 °F	Average value: -17.8 °C Grade Count:14
Injection Pressure	68.9 - 124 MPa	10000 - 18000 psi	Average value: 99.2 MPa Grade Count:23

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