

## Overview of materials for Nylon 66/6, Mineral Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Mineral Reinforced

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 66/6, Mineral Reinforced". 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-666-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Nylon-666-Mineral-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.22 - 1.46 g/cc	0.0441 - 0.0527 lb/in <sup>3</sup>	Average value: 1.36 g/cc Grade Count:8
Water Absorption	1.17 - 7.00 %	1.17 - 7.00 %	Average value: 5.53 % Grade Count:6
Moisture Absorption at Equilibrium	2.00 %	2.00 %	Average value: 2.00 % Grade Count:5
Linear Mold Shrinkage	0.00400 - 0.0140 cm/cm	0.00400 - 0.0140 in/in	Average value: 0.00857 cm/cm Grade Count:6
Linear Mold Shrinkage, Transverse	0.00600 - 0.0140 cm/cm	0.00600 - 0.0140 in/in	Average value: 0.00970 cm/cm Grade Count:6

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	90.0 - 190 MPa	13100 - 27600 psi	Average value: 144 MPa Grade Count:4
Tensile Strength, Ultimate	45.0 - 105 MPa	6530 - 15200 psi	Average value: 69.6 MPa Grade Count:8
Elongation at Break	2.00 - 35.0 %	2.00 - 35.0 %	Average value: 11.8 % Grade Count:7
Modulus of Elasticity	2.10 - 8.50 GPa	305 - 1230 ksi	Average value: 4.73 GPa Grade Count:8
Charpy Impact Unnotched	3.00 - 15.0 J/cm <sup>2</sup>	14.3 - 71.4 ft-lb/in <sup>2</sup>	Average value: 6.96 J/cm <sup>2</sup> Grade Count:7
	3.00 - 7.00 J/cm <sup>2</sup> @Temperature -20.0 - 30.0 °C	14.3 - 33.3 ft-lb/in <sup>2</sup> @Temperature -4.00 - 86.0 °F	Average value: 4.40 J/cm <sup>2</sup> Grade Count:5
Charpy Impact, Notched	0.400 - 0.700 J/cm <sup>2</sup>	1.90 - 3.33 ft-lb/in <sup>2</sup>	Average value: 0.519 J/cm <sup>2</sup> Grade Count:7
	0.200 - 0.500 J/cm <sup>2</sup> @Temperature -20.0 - 30.0 °C	0.952 - 2.38 ft-lb/in <sup>2</sup> @Temperature -4.00 - 86.0 °F	Average value: 0.350 J/cm <sup>2</sup> Grade Count:5

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 - 90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	22.2 - 50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Average value: 72.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ Grade Count:5
CTE, linear, Transverse to Flow	70.0 - 90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	38.9 - 50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Average value: 80.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ Grade Count:4
Melting Point	222 - 260 $^{\circ}\text{C}$	432 - 500 $^{\circ}\text{F}$	Average value: 251 $^{\circ}\text{C}$ Grade Count:8
Maximum Service Temperature, Air	80.0 - 220 $^{\circ}\text{C}$	176 - 428 $^{\circ}\text{F}$	Average value: 149 $^{\circ}\text{C}$ Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	90.0 - 220 $^{\circ}\text{C}$	194 - 428 $^{\circ}\text{F}$	Average value: 128 $^{\circ}\text{C}$ Grade Count:7
Deflection Temperature at 8.0 MPa	60.0 - 70.0 $^{\circ}\text{C}$	140 - 158 $^{\circ}\text{F}$	Average value: 65.0 $^{\circ}\text{C}$ Grade Count:3
Flammability, UL94	HB	HB	Grade Count:6

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+11 - 1.00e+15 ohm-cm	1.00e+11 - 1.00e+15 ohm-cm	Average value: 8.78e+13 ohm-cm Grade Count:6
Surface Resistance	1.00e+10 - 1.00e+11 ohm	1.00e+10 - 1.00e+11 ohm	Average value: 8.20e+10 ohm Grade Count:5
Dielectric Strength	21.0 - 34.0 kV/mm	533 - 864 kV/in	Average value: 27.3 kV/mm Grade Count:3
Comparative Tracking Index	500 - 600 V	500 - 600 V	Average value: 542 V Grade Count:3

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