

Overview of materials for Nylon 66/6, 10% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 10% Glass Fiber Reinforced

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 66/6, 10% Glass Fiber Reinforced".

Specific grades with glass content between 5% and 14% are included. 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-666-10-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.18 - 1.73 g/cc	0.0426 - 0.0625 lb/in ³	Average value: 1.33 g/cc Grade Count:5
Linear Mold Shrinkage	0.00200 - 0.00950 cm/cm	0.00200 - 0.00950 in/in	Average value: 0.00675 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	60.0 - 105 MPa	8700 - 15200 psi	Average value: 84.8 MPa Grade Count:3
Elongation at Break	1.50 - 8.00 %	1.50 - 8.00 %	Average value: 5.83 % Grade Count:3
Flexural Yield Strength	110 - 165 MPa	16000 - 24000 psi	Average value: 136 MPa Grade Count:3
Flexural Modulus	3.30 - 7.60 GPa	479 - 1100 ksi	Average value: 4.83 GPa Grade Count:4
Izod Impact, Notched (ISO)	3.00 - 8.50 kJ/m ²	1.43 - 4.04 ft-lb/in ²	Average value: 6.00 kJ/m ² Grade Count:3

Thermal Properties	Metric	English	Comments
Melting Point	200 - 260 °C	392 - 500 °F	Average value: 234 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	127 - 235 °C	261 - 455 °F	Average value: 178 °C Grade Count:5

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