

Overview of materials for Nylon 63, 35% Glass-Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6-3 , Nylon 63, 35% Glass-Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 63, 35% Glass-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-63-35-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.38 - 1.41 g/cc	0.0499 - 0.0509 lb/in ³	Average value: 1.39 g/cc Grade Count:6
Water Absorption	5.50 - 8.00 %	5.50 - 8.00 %	Average value: 7.17 % Grade Count:6
Moisture Absorption at Equilibrium	1.50 - 2.10 %	1.50 - 2.10 %	Average value: 1.90 % Grade Count:6
Linear Mold Shrinkage	0.00400 cm/cm	0.00400 in/in	Average value: 0.00400 cm/cm Grade Count:4
Linear Mold Shrinkage, Transverse	0.00900 cm/cm	0.00900 in/in	Average value: 0.00900 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 - 210 MPa	17400 - 30500 psi	Average value: 160 MPa Grade Count:6
Elongation at Break	3.00 - 5.00 %	3.00 - 5.00 %	Average value: 4.00 % Grade Count:6
Modulus of Elasticity	7.50 - 11.0 GPa	1090 - 1600 ksi	Average value: 8.92 GPa Grade Count:6
Izod Impact, Unnotched (ISO)	9.50 - 9.50 kJ/m ² @Temperature -40.0 - - 40.0 °C	4.52 - 4.52 ft-lb/in ² @Temperature -40.0 - - 40.0 °F	Average value: 9.50 kJ/m ² Grade Count:1
Charpy Impact Unnotched	8.00 - 10.5 J/cm ²	38.1 - 50.0 ft-lb/in ²	Average value: 9.33 J/cm ² Grade Count:6
	7.00 - 7.50 J/cm ² @Temperature -30.0 - - 30.0 °C	33.3 - 35.7 ft-lb/in ² @Temperature -22.0 - - 22.0 °F	Average value: 7.17 J/cm ² Grade Count:6
Charpy Impact, Notched	1.20 - 2.10 J/cm ²	5.71 - 9.99 ft-lb/in ²	Average value: 1.63 J/cm ² Grade Count:6
	1.00 - 1.10 J/cm ² @Temperature -30.0 - -	4.76 - 5.24 ft-lb/in ² @Temperature -22.0 - -	Average value: 1.03 J/cm ² Grade Count:6

Mechanical Properties	30.0 °C Metric	22.0 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C	11.1 µin/in-°F	Average value: 20.0 µm/m-°C Grade Count:3
CTE, linear, Transverse to Flow	60.0 - 70.0 µm/m-°C	33.3 - 38.9 µin/in-°F	Average value: 66.7 µm/m-°C Grade Count:3
Melting Point	260 °C	500 °F	Average value: 260 °C Grade Count:6
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	Average value: 260 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	246 - 255 °C	475 - 491 °F	Average value: 249 °C Grade Count:3
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 - 1.00e+14 ohm-cm	1.00e+12 - 1.00e+14 ohm-cm	Average value: 5.05e+13 ohm-cm Grade Count:6
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	Average value: 1.00e+13 ohm Grade Count:3
Dielectric Constant	3.50 - 10.0	3.50 - 10.0	Average value: 5.37 Grade Count:6
Dielectric Strength	25.0 - 35.0 kV/mm	635 - 889 kV/in	Average value: 29.2 kV/mm Grade Count:6
Dissipation Factor	0.00500 - 0.300	0.00500 - 0.300	Average value: 0.0991 Grade Count:6

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