

## Overview of materials for Polyetherimide (PEI), Nickel Coated Graphite Filled

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Nickel Coated Graphite Filled

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PEI, NCG 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-Polyetherimide-PEI-Nickel-Coated-Graphite-Filled.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Polyetherimide-PEI-Nickel-Coated-Graphite-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.31 - 1.52 g/cc	0.0473 - 0.0549 lb/in <sup>3</sup>	Average value: 1.41 g/cc Grade Count:10
Filler Content	5.00 - 30.0 %	5.00 - 30.0 %	Average value: 17.5 % Grade Count:6
Water Absorption	0.0200 - 0.250 %	0.0200 - 0.250 %	Average value: 0.174 % Grade Count:5
Linear Mold Shrinkage	0.000100 - 0.00600 cm/cm	0.000100 - 0.00600 in/in	Average value: 0.00178 cm/cm Grade Count:10

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	114 - 165 MPa	16500 - 24000 psi	Average value: 137 MPa Grade Count:10
Elongation at Break	1.00 - 8.00 %	1.00 - 8.00 %	Average value: 2.65 % Grade Count:10
Modulus of Elasticity	5.52 - 14.5 GPa	800 - 2100 ksi	Average value: 10.9 GPa Grade Count:10
Flexural Yield Strength	179 - 221 MPa	26000 - 32000 psi	Average value: 200 MPa Grade Count:10
Flexural Modulus	5.52 - 15.2 GPa	800 - 2200 ksi	Average value: 10.2 GPa Grade Count:10
Izod Impact, Notched	0.374 - 0.694 J/cm	0.700 - 1.30 ft-lb/in	Average value: 0.502 J/cm Grade Count:10
Izod Impact, Unnotched	2.67 - 5.34 J/cm	5.00 - 10.0 ft-lb/in	Average value: 4.08 J/cm Grade Count:10

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 - 213 °C	400 - 415 °F	Average value: 208 °C Grade Count:8
Flammability, UL94	HB - 5VA	HB - 5VA	Grade Count:7

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 ohm-cm - 1e+05	1.00 ohm-cm - 1e+05	Average value: 25.0 ohm-cm Grade Count:10
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	Average value: 185000 ohm Grade Count:10
Static Decay	0.500 - 2.00 sec	0.500 - 2.00 sec	Average value: 1.50 sec Grade Count:9

Processing Properties	Metric	English	Comments
Processing Temperature	349 - 382 °C	660 - 720 °F	Average value: 366 °C Grade Count:6
Melt Temperature	354 - 399 °C	670 - 750 °F	Average value: 380 °C Grade Count:4
Mold Temperature	135 - 177 °C	275 - 350 °F	Average value: 156 °C Grade Count:10
Drying Temperature	149 °C	300 °F	Average value: 149 °C Grade Count:4
Moisture Content	0.0400 %	0.0400 %	Average value: 0.0400 % Grade Count:4
Dew Point	-28.9 °C	-20.0 °F	Average value: -28.9 °C Grade Count:4
Injection Pressure	82.7 - 124 MPa	12000 - 18000 psi	Average value: 103 MPa Grade Count:10

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