

## Overview of materials for Polyphenylene Sulfide (PPS), NCG Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) + NGG

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PPS + NGG". 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-Polyphenylene-Sulfide-PPS-NGG-Fiber.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Polyphenylene-Sulfide-PPS-NGG-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.41 - 1.75 g/cc	0.0509 - 0.0632 lb/in <sup>3</sup>	Average value: 1.54 g/cc Grade Count:3
Filler Content	10.0 - 50.0 %	10.0 - 50.0 %	Average value: 25.0 % Grade Count:3
Water Absorption	0.00200 - 0.0200 %	0.00200 - 0.0200 %	Average value: 0.0140 % Grade Count:3
Linear Mold Shrinkage	0.00100 - 0.00600 cm/cm	0.00100 - 0.00600 in/in	Average value: 0.00313 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.2 - 172 MPa	8000 - 25000 psi	Average value: 113 MPa Grade Count:3
Elongation at Break	0.500 - 1.50 %	0.500 - 1.50 %	Average value: 0.900 % Grade Count:3
Modulus of Elasticity	8.27 - 28.3 GPa	1200 - 4100 ksi	Average value: 16.8 GPa Grade Count:3
Flexural Yield Strength	82.7 - 276 MPa	12000 - 40000 psi	Average value: 184 MPa Grade Count:3
Flexural Modulus	6.89 - 26.9 GPa	1000 - 3900 ksi	Average value: 15.9 GPa Grade Count:3
Izod Impact, Notched	0.267 - 0.801 J/cm	0.500 - 1.50 ft-lb/in	Average value: 0.498 J/cm Grade Count:3
Izod Impact, Unnotched	0.908 - 2.67 J/cm	1.70 - 5.00 ft-lb/in	Average value: 1.99 J/cm Grade Count:3

Thermal Properties	Metric	English	Comments
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)	232 - 260 °C	450 - 500 °F	Average value: 251 °C Grade Count:3

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.100 - 10.0 ohm-cm	0.100 - 10.0 ohm-cm	Average value: 6.70 ohm-cm Grade Count:3

Processing Properties	Metric	English	Comments
Processing Temperature	288 - 321 °C	550 - 610 °F	Average value: 304 °C Grade Count:3
Mold Temperature	135 - 177 °C	275 - 350 °F	Average value: 156 °C Grade Count:3
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:3

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