

Overview of materials for Polyphenylene Sulfide (PPS) with PTFE Filler

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with PTFE Filler

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polyphenylene Sulfide (PPS) with PTFE Filler". 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-with-PTFE-Filler.php

Physical Properties	Metric	English	Comments
Density	1.34 - 2.03 g/cc	0.0484 - 0.0733 lb/in ³	Average value: 1.54 g/cc Grade Count:23
Filler Content	10.0 - 70.0 %	10.0 - 70.0 %	Average value: 35.5 % Grade Count:19
Water Absorption	0.0200 - 0.200 %	0.0200 - 0.200 %	Average value: 0.130 % Grade Count:4
Linear Mold Shrinkage	0.00200 - 0.0200 cm/cm	0.00200 - 0.0200 in/in	Average value: 0.0118 cm/cm Grade Count:15

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64.0 - 89.0	64.0 - 89.0	Average value: 77.2 Grade Count:6
Tensile Strength, Ultimate	11.0 - 75.8 MPa	1600 - 11000 psi	Average value: 41.7 MPa Grade Count:25
Elongation at Break	0.500 - 68.0 %	0.500 - 68.0 %	Average value: 4.37 % Grade Count:23
Modulus of Elasticity	1.65 - 9.65 GPa	240 - 1400 ksi	Average value: 4.09 GPa Grade Count:21
Flexural Yield Strength	18.6 - 117 MPa	2700 - 17000 psi	Average value: 70.4 MPa Grade Count:24
Flexural Modulus	1.31 - 10.3 GPa	190 - 1500 ksi	Average value: 4.09 GPa Grade Count:21
Compressive Yield Strength	24.1 - 100 MPa	3500 - 14500 psi	Average value: 49.0 MPa Grade Count:4
Izod Impact, Notched	0.160 - 0.854 J/cm	0.300 - 1.60 ft-lb/in	Average value: 0.344 J/cm Grade Count:16
Izod Impact, Unnotched	1.07 - 3.74 J/cm	2.00 - 7.00 ft-lb/in	Average value: 2.14 J/cm Grade Count:11
Charpy Impact Unnotched	1.00 - 2.00 J/cm ²	4.76 - 9.52 ft-lb/in ²	Average value: 1.50 J/cm ² Grade Count:3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.0 - 232 °C	199 - 450 °F	Average value: 133 °C Grade Count:13
Flammability, UL94	V-0	V-0	Grade Count:11

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 - 1.00e+16 ohm-cm	1.00e+14 - 1.00e+16 ohm-cm	Average value: 2.80e+15 ohm-cm Grade Count:4
Surface Resistance	10000 - 1.00e+15 ohm	10000 - 1.00e+15 ohm	Average value: 2.50e+14 ohm Grade Count:4

Processing Properties	Metric	English	Comments
Processing Temperature	288 - 330 °C	550 - 626 °F	Average value: 321 °C Grade Count:3
Melt Temperature	288 - 343 °C	550 - 650 °F	Average value: 318 °C Grade Count:14
Mold Temperature	130 - 180 °C	266 - 356 °F	Average value: 155 °C Grade Count:15
Drying Temperature	50.0 - 150 °C	122 - 302 °F	Average value: 130 °C Grade Count:14
Moisture Content	0.0400 %	0.0400 %	Average value: 0.0400 % Grade Count:7
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:11

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