

Overview of materials for PPE/PPO + Carbon Fiber

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , PPE/PPO + Carbon Fiber

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PPE/PPO + Carbon Fiber". 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-PPEPPO-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.10 - 1.26 g/cc	0.0397 - 0.0455 lb/in ³	Average value: 1.17 g/cc Grade Count:6
Filler Content	10.0 - 40.0 %	10.0 - 40.0 %	Average value: 21.3 % Grade Count:4
Linear Mold Shrinkage	0.00100 - 0.00200 cm/cm	0.00100 - 0.00200 in/in	Average value: 0.00144 cm/cm Grade Count:6

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.2 - 103 MPa	8000 - 15000 psi	Average value: 74.7 MPa Grade Count:6
Elongation at Break	0.000 - 2.00 %	0.000 - 2.00 %	Average value: 1.33 % Grade Count:6
Modulus of Elasticity	8.27 - 20.7 GPa	1200 - 3000 ksi	Average value: 10.9 GPa Grade Count:6
Flexural Yield Strength	89.6 - 138 MPa	13000 - 20000 psi	Average value: 109 MPa Grade Count:6
Flexural Modulus	6.89 - 17.2 GPa	1000 - 2500 ksi	Average value: 9.08 GPa Grade Count:6
Izod Impact, Notched	0.534 - 0.801 J/cm	1.00 - 1.50 ft-lb/in	Average value: 0.596 J/cm Grade Count:6
Izod Impact, Unnotched	1.07 - 2.14 J/cm	2.00 - 4.00 ft-lb/in	Average value: 1.74 J/cm Grade Count:6

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.3 - 149 °C	200 - 300 °F	Average value: 127 °C Grade Count:6
Flammability, UL94	HB - V-1	HB - V-1	Grade Count:6

Electrical Properties	Metric	English	Comments
	1000 - 10000 ohm-cm	1000 - 10000 ohm-cm	Average value: 2500 ohm-cm Grade

Electrical Resistivity Electrical Properties	Metric	English	Count:6 Comments
Processing Properties	Metric	English	Comments
Processing Temperature	232 - 282 °C	450 - 540 °F	Average value: 257 °C Grade Count:6
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	Average value: 79.4 °C Grade Count:6
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa 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