

Overview of materials for Polyetheretherketone, PEEK, Aramid Fiber Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Aramid Fiber Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polyetheretherketone, PEEK, Aramid Fiber 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-Polyetheretherketone-PEEK-Aramid-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.31 - 1.50 g/cc	0.0473 - 0.0542 lb/in ³	Average value: 1.37 g/cc Grade Count:13
Water Absorption	0.100 - 0.200 %	0.100 - 0.200 %	Average value: 0.157 % Grade Count:3
Linear Mold Shrinkage	0.000500 - 0.0150 cm/cm	0.000500 - 0.0150 in/in	Average value: 0.00884 cm/cm Grade Count:13

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 - 193 MPa	10900 - 28000 psi	Average value: 93.5 MPa Grade Count:13
Elongation at Break	1.00 - 6.00 %	1.00 - 6.00 %	Average value: 3.50 % Grade Count:12
Modulus of Elasticity	3.70 - 20.7 GPa	537 - 3000 ksi	Average value: 6.36 GPa Grade Count:13
Flexural Yield Strength	85.0 - 276 MPa	12300 - 40000 psi	Average value: 153 MPa Grade Count:12
Flexural Modulus	2.50 - 22.8 GPa	363 - 3300 ksi	Average value: 6.45 GPa Grade Count:12
Izod Impact, Notched	0.267 - 0.641 J/cm	0.500 - 1.20 ft-lb/in	Average value: 0.437 J/cm Grade Count:11
Izod Impact, Unnotched	2.67 - 6.41 J/cm	5.00 - 12.0 ft-lb/in	Average value: 4.30 J/cm Grade Count:11

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	163 - 260 °C	325 - 500 °F	Average value: 193 °C Grade Count:8
Flammability, UL94	V-0	V-0	Grade Count:9

Electrical Properties	Metric	English	Comments
	10000 - 1.00e+16 ohm-	10000 - 1.00e+16 ohm-	Average value: 4.21e+15 ohm-cm

Electrical Resistivity Electrical Properties	cm Metric	cm English	Grade Count:6 Comments
Processing Properties	Metric	English	Comments
Processing Temperature	343 - 390 °C	650 - 734 °F	Average value: 370 °C Grade Count:5
Melt Temperature	349 - 400 °C	660 - 752 °F	Average value: 376 °C Grade Count:9
Mold Temperature	163 - 218 °C	325 - 425 °F	Average value: 190 °C Grade Count:13
Drying Temperature	120 - 150 °C	248 - 302 °F	Average value: 145 °C Grade Count:9
Moisture Content	0.100 %	0.100 %	Average value: 0.100 % Grade Count:7
Dew Point	-28.9 °C	-20.0 °F	Average value: -28.9 °C Grade Count:7
Injection Pressure	82.7 - 124 MPa	12000 - 18000 psi	Average value: 103 MPa Grade Count:11

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