

## Overview of materials for Polyetherketoneetherketoneketone (PEKEKK), Glass Fiber Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetherketoneetherketoneketone (PEKEKK), Glass Fiber Filled

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polyetherketoneetherketoneketone (PEKEKK), Glass 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-Polyetherketoneetherketoneketone-PEKEKK-Glass-Fiber-Filled.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Polyetherketoneetherketoneketone-PEKEKK-Glass-Fiber-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.37 - 1.54 g/cc	0.0495 - 0.0556 lb/in <sup>3</sup>	Average value: 1.48 g/cc Grade Count:5
Water Absorption	0.110 - 0.200 %	0.110 - 0.200 %	Average value: 0.147 % Grade Count:3
Water Absorption at Saturation	0.600 - 0.600 % @Temperature 100 - 100 °C	0.600 - 0.600 % @Temperature 212 - 212 °F	Average value: 0.600 % Grade Count:1
Viscosity	600000 - 600000 cP @Temperature 420 - 420 °C	600000 - 600000 cP @Temperature 788 - 788 °F	Average value: 600000 cP Grade Count:1
Linear Mold Shrinkage	0.00200 - 0.0130 cm/cm	0.00200 - 0.0130 in/in	Average value: 0.00513 cm/cm Grade Count:5
Linear Mold Shrinkage, Transverse	0.00900 - 0.0150 cm/cm	0.00900 - 0.0150 in/in	Average value: 0.0135 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	131 - 200 MPa	19000 - 29000 psi	Average value: 170 MPa Grade Count:5
	50.0 - 130 MPa @Temperature 125 - 275 °C	7250 - 18900 psi @Temperature 257 - 527 °F	Average value: 86.7 MPa Grade Count:1
Elongation at Break	2.00 - 4.50 %	2.00 - 4.50 %	Average value: 2.96 % Grade Count:5
Modulus of Elasticity	6.90 - 13.1 GPa	1000 - 1900 ksi	Average value: 10.7 GPa Grade Count:5
Flexural Yield Strength	190 - 300 MPa	27600 - 43500 psi	Average value: 252 MPa Grade Count:5
	70.0 - 180 MPa	10200 - 26100 psi	

Mechanical Properties	Metric @ Temperature 125 - 275 °C	English @ Temperature 257 - 527 °F	Comments Average value: 123 MPa Grade Count:5
Flexural Modulus	4.80 - 11.0 GPa	696 - 1600 ksi	Average value: 8.55 GPa Grade Count:5
Compressive Yield Strength	50.0 - 190 MPa @Temperature 120 - 250 °C	7250 - 27600 psi @Temperature 248 - 482 °F	Average value: 105 MPa Grade Count:1
Izod Impact, Notched	1.00 - 1.33 J/cm	1.87 - 2.50 ft-lb/in	Average value: 1.16 J/cm Grade Count:4
Izod Impact, Unnotched	9.10 - 10.1 J/cm	17.0 - 19.0 ft-lb/in	Average value: 9.74 J/cm Grade Count:4
K (wear) Factor	10100 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	5000 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Average value: 10100 x 10 <sup>&lt;sup&gt;- 8&lt;/sup&gt;</sup> mm <sup>3</sup> /N-M Grade Count:3

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 - 100 µm/m-°C @Temperature >=162 °C	12.8 - 55.6 µin/in-°F @Temperature >=324 °F	Average value: 61.5 µm/m-°C Grade Count:1
Deflection Temperature at 1.8 MPa (264 psi)	254 - 380 °C	489 - 716 °F	Average value: 322 °C Grade Count:5
Flammability, UL94	V-0	V-0	Grade Count:4

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	Average value: 1.00e+16 ohm-cm Grade Count:4

## Contact Songhan Plastic Technology Co.,Ltd.

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