

## Beijing Chemical Industry KAIFA® S-114 PPS Resin

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Mineral/Glass-Fiber Filled

### Material Notes:

Glass fiber reinforced Information provided by Beijing Chemical Industry Research Institute (Group)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Beijing-Chemical-Industry-KAIFA-S-114-PPS-Resin.php](http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-S-114-PPS-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.050 %	0.050 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Flexural Strength	185 MPa	26800 psi	ASTM D790
Flexural Modulus	1.20 GPa	174 ksi	ASTM D790
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	ISO179
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	17.0 kV/mm @Thickness 2.00 mm	432 kV/in @Thickness 0.0787 in	ASTM D149
	0.0020	0.0020	

Designation Factor Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	ASTM D150 Comments
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Processing Temperature	280 - 315 °C	536 - 599 °F	Injection Temp.
Mold Temperature	135 - 150 °C	275 - 302 °F	
Drying Temperature	130 °C	266 °F	
Dry Time	4 hour	4 hour	
Injection Pressure	60.0 MPa	8700 psi	

## Contact Songhan Plastic Technology Co.,Ltd.

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