

## Beijing Chemical Industry KAIFA® S-206 PPS Resin

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

### Material Notes:

Glass fiber reinforced and mineral filled 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-206-PPS-Resin.php](http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-S-206-PPS-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.030 %	0.030 %	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	100 MPa	14500 psi	ASTM D638
Elongation at Break	0.60 %	0.60 %	ASTM D638
Flexural Strength	160 MPa	23200 psi	ASTM D790
Flexural Modulus	1.50 GPa	218 ksi	ASTM D790
Charpy Impact Unnotched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	ISO179
Charpy Impact, Notched	0.650 J/cm <sup>2</sup>	3.09 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	4.5 @Frequency 1e+6 Hz	4.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm @Thickness 2.00 mm	381 kV/in @Thickness 0.0787 in	ASTM D149
	0.0081	0.0081	

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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