

## LATI Larton K/30 PPS, 30% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% Carbon Fiber Filler

### Material Notes:

Polyphenylene Sulfide (PPS) based compound. Carbon fiber. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America. Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LATI-Larton-K30-PPS-30-Carbon-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_LATI-Larton-K30-PPS-30-Carbon-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	85.0 MPa	12300 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	130 MPa	18900 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	165 MPa	23900 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	185 MPa	26800 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	0.80 %	0.80 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.90 %	0.90 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.3 %	1.3 %	

Mechanical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	Comments
	1.6 %	1.6 %	
	@Temperature 120 °C	@Temperature 248 °F	
	1.8 %	1.8 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	11.0 GPa	1600 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	15.0 GPa	2180 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	21.0 GPa	3050 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	23.5 GPa	3410 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	25.0 GPa	3630 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.450 J/cm <sup>2</sup>	2.14 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	225 °C	437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	280 °C	536 °F	
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	
Vicat Softening Point	255 °C	491 °F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
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@Thickness 0.750 mm

@Thickness 0.0295 in

Electrical Properties	Metric	English	Comments
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Volume Resistivity

6000 ohm-cm

6000 ohm-cm

Surface Resistance

300 ohm

300 ohm

Processing Properties	Metric	English	Comments
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Melt Temperature

290 - 310 Â°C

554 - 590 Â°F

Mold Temperature

130 - 140 Â°C

266 - 284 Â°F

Drying Temperature

130 - 150 Â°C

266 - 302 Â°F

@Time 10800 sec

@Time 3.00 hour

Descriptive Properties	Value	Comments
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ISO Shrinkage - Pressure

60 MPa

## Contact Songhan Plastic Technology Co.,Ltd.

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