

LATI Larton K/20 PPS, 20% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 20% 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-K20-PPS-20-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	70.0 MPa	10200 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	105 MPa	15200 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	135 MPa	19600 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	150 MPa	21800 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.0 %	1.0 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.1 %	1.1 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.6 %	1.6 %	

Mechanical Properties	Metric	English	Comments
	2.0 %	2.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.3 %	2.3 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	7.20 GPa	1040 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	10.5 GPa	1520 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	15.2 GPa	2200 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	16.0 GPa	2320 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	17.0 GPa	2470 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	
Charpy Impact, Notched	0.350 J/cmÂ²	1.67 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 Â°C	428 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	280 Â°C	536 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	265 Â°C	509 Â°F	
Vicat Softening Point	255 Â°C	491 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	
Surface Resistance	1000 ohm	1000 ohm	

Processing Properties	Metric	English	Comments
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 @Time 10800 sec	266 - 302 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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