

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

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 20% Carbon Fiber Filler

Material Notes:

Linear Polyphenylene Sulfide (L-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-L-K20-L-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	45.0 MPa	6530 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	65.0 MPa	9430 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	95.0 MPa	13800 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	125 MPa	18100 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	145 MPa	21000 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	
	1.2 %	1.2 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.5 %	1.5 %	

Mechanical Properties	Metric	English	Comments
	1.9 %	1.9 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.1 %	2.1 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	7.50 GPa	1090 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	9.20 GPa	1330 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	12.5 GPa	1810 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	15.8 GPa	2290 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	18.0 GPa	2610 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	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 Â°C	392 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	280 Â°C	536 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	270 Â°C	518 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	8000 ohm-cm	8000 ohm-cm	
Surface Resistance	2000 ohm	2000 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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