

LATI Larton K/40 HM PPS, 40% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Carbon Fiber Filler

Material Notes:

Polyphenylene Sulfide (PPS) based compound. Carbon fiber. High tensile modulus. 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-K40-HM-PPS-40-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	
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	100 MPa	14500 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	120 MPa	17400 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	145 MPa	21000 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	160 MPa	23200 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	175 MPa	25400 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	0.40 %	0.40 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.50 %	0.50 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.80 %	0.80 %	

Mechanical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	Comments
	1.0 %	1.0 %	
	@Temperature 120 °C	@Temperature 248 °F	
	1.2 %	1.2 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	15.0 GPa	2180 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	22.0 GPa	3190 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	39.0 GPa	5660 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	42.0 GPa	6090 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	45.0 GPa	6530 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	1.00 J/cm ²	4.76 ft-lb/in ²	
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	

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	

Electrical Properties	Metric	English	Comments
Volume Resistivity	120 ohm-cm	120 ohm-cm	
Surface Resistance	50 ohm	50 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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