

LATI Lastilac RT K/10 ABS, 10% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% Carbon Fiber Filled

Material Notes:

Acrylonitrile-Butadiene-Styrene copolymer (ABS) based compound. Carbon fiber. High dimensional stability. 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-Lastilac-RT-K10-ABS-10-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Linear Mold Shrinkage, Flow	0.0025 - 0.0040 cm/cm	0.0025 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	45.0 MPa	6530 psi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	60.0 MPa	8700 psi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Elongation at Break	0.70 %	0.70 %	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	0.70 %	0.70 %	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	0.70 %	0.70 %	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
Elongation at Yield	0.60 %	0.60 %	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	6.00 GPa	870 ksi	

Tensile Modulus Mechanical Properties	Metric @Temperature 90.0 Â°C	English @Temperature 194 Â°F	Comments
	7.50 GPa	1090 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	8.30 GPa	1200 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	0.450 J/cmÂ²	2.14 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	75.0 Â°C	167 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	
Vicat Softening Point	105 Â°C	221 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Surface Resistance	2000 ohm	2000 ohm	

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 Â°C	428 - 500 Â°F	
Mold Temperature	50.0 - 70.0 Â°C	122 - 158 Â°F	
	70.0 - 80.0 Â°C	158 - 176 Â°F	

Drying Temperature	Metric	English	
Processing Properties	@ Time 10800 sec	@ Time 3.00 hour	Comments

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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