

LATI Latamid 66 H2 K/40 PA 66, 40% Carbon Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Carbon Fiber Filled

Material Notes:

Polyamide 66 (PA66) based compound. Heat stabilized. Carbon fiber. 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-Latamid-66-H2-K40-PA-66-40-Carbon-Fiber-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	
Linear Mold Shrinkage, Flow	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	
Linear Mold Shrinkage, Transverse	0.0045 - 0.0070 cm/cm	0.0045 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	125 MPa	18100 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	145 MPa	21000 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	170 MPa	24700 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	220 MPa	31900 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.2 %	1.2 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.8 %	1.8 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.7 %	2.7 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	3.2 %	3.2 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	8.20 GPa	1190 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	11.0 GPa	1600 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	16.0 GPa	2320 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	23.0 GPa	3340 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	25.5 GPa	3700 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 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	750 ohm-cm	750 ohm-cm	
Surface Resistance	100 ohm	100 ohm	

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	280 - 300 Â°C Metric	536 - 572 Â°F English	Comments
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	90.0 - 100 Â°C @Time 10800 sec	194 - 212 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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