

LATI Latamid 66 H2 K/50 PA 66, 50% Carbon Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% 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-K50-PA-66-50-Carbon-Fiber-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0035 - 0.0055 cm/cm	0.0035 - 0.0055 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	125 MPa	18100 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	140 MPa	20300 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	170 MPa	24700 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	210 MPa	30500 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	
	1.5 %	1.5 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.4 %	2.4 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	2.9 %	2.9 %	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
Tensile Modulus	9.50 GPa	1380 ksi	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	12.0 GPa	1740 ksi	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	17.5 GPa	2540 ksi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	27.0 GPa	3920 ksi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	29.0 GPa	4210 ksi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	3.50 J/cmÅ²	16.7 ft-lb/inÅ²	
Charpy Impact, Notched	0.700 J/cmÅ²	3.33 ft-lb/inÅ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 Å°C	275 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C	500 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	250 Å°C	482 Å°F	
Vicat Softening Point	250 Å°C	482 Å°F	
	@Load 5.00 kg	@Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	50 ohm-cm	50 ohm-cm	
Surface Resistance	10 ohm	10 ohm	

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	280 - 310 Â°C Metric	536 - 590 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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