

LATI Latamid 66 E21 K/30 PA 66, 30% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Carbon Fiber Filled

Material Notes:

Polyamide 66 (PA66) based compound. Toughened. Carbon fibers. 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-E21-K30-PA-66-30-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Linear Mold Shrinkage, Flow	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	
Linear Mold Shrinkage, Transverse	0.0065 - 0.0095 cm/cm	0.0065 - 0.0095 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	95.0 MPa	13800 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	110 MPa	16000 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	140 MPa	20300 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	180 MPa	26100 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.8 %	1.8 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.0 %	3.0 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	3.2 %	3.2 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	4.3 %	4.3 %	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
Tensile Modulus	6.00 GPa	870 ksi	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	8.20 GPa	1190 ksi	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	11.7 GPa	1700 ksi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	19.5 GPa	2830 ksi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	20.0 GPa	2900 ksi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	5.00 J/cmÅ²	23.8 ft-lb/inÅ²	
Charpy Impact, Notched	1.50 J/cmÅ²	7.14 ft-lb/inÅ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 Å°C	221 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	255 Å°C	491 Å°F	
	@Load 5.00 kg	@Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	200000 ohm-cm	200000 ohm-cm	
Surface Resistance	30000 ohm	30000 ohm	

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	260 - 290 Â°C Metric	500 - 554 Â°F English	Comments
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China