

LATI Latilub 66-15T K/30 PA66, 30% Carbon Fiber Reinforced, PTFE Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Carbon Fiber/PTFE Filled

Material Notes:

Self-lubricating product based on Polyamide 66 (PA66). PTFE. 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-Latilub-66-15T-K30-PA66-30-Carbon-Fiber-Reinforced-PTFE-Filled.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 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	
	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	
	230 MPa	33400 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.9 %	1.9 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.5 %	2.5 %	
	@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	
	3.8 %	3.8 %	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
Tensile Modulus	8.30 GPa	1200 ksi	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	11.3 GPa	1640 ksi	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	16.0 GPa	2320 ksi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	22.5 GPa	3260 ksi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	24.0 GPa	3480 ksi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	4.00 J/cmÅ²	19.0 ft-lb/inÅ²	
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
	5.00 J/cmÅ²	23.8 ft-lb/inÅ²	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact, Notched	0.600 J/cmÅ²	2.86 ft-lb/inÅ²	
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
	0.800 J/cmÅ²	3.81 ft-lb/inÅ²	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Coefficient of Friction, Dynamic	0.19	0.19	
Coefficient of Friction, Static	0.25	0.25	
K (wear) Factor	15.0 x 10 ⁻⁸ mmÅ³/N-M	7.45 x 10 ⁻¹⁰ inÅ³-min/ft-lb-hr	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (0.07 psi)	255 Â°C	491 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 Â°F	
Vicat Softening Point	255 Â°C @Load 5.00 kg	491 Â°F @Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	275 - 300 Â°C	527 - 572 Â°F	
Mold Temperature	70.0 - 100 Â°C	158 - 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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