

LATI Latan 13 K/30 POM, 30% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Polyoxymethylene (POM) based compound. Carbon fiber. Medium viscosity. Good tribological properties. 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-Latan-13-K30-POM-30-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	
Linear Mold Shrinkage, Flow	0.0030 - 0.0055 cm/cm	0.0030 - 0.0055 in/in	
Linear Mold Shrinkage, Transverse	0.010 - 0.013 cm/cm	0.010 - 0.013 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	100 MPa	14500 psi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	120 MPa	17400 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	0.90 %	0.90 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.1 %	1.1 %	
	@Temperature 60.0 °C	@Temperature 140 °F	
	1.2 %	1.2 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
Tensile Modulus	10.0 GPa	1450 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	14.5 GPa	2100 ksi	

Mechanical Properties	Metric	English	Comments
	18.5 GPa @Temperature 60.0 Å°C	2680 ksi @Temperature 140 Å°F	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	1.50 J/cmÅ² @Temperature 23.0 Å°C	7.14 ft-lb/inÅ² @Temperature 73.4 Å°F	
	1.50 J/cmÅ² @Temperature -20.0 Å°C	7.14 ft-lb/inÅ² @Temperature -4.00 Å°F	
Charpy Impact, Notched	0.200 J/cmÅ² @Temperature -20.0 Å°C	0.952 ft-lb/inÅ² @Temperature -4.00 Å°F	
	0.250 J/cmÅ² @Temperature 23.0 Å°C	1.19 ft-lb/inÅ² @Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	85.0 Å°C	185 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	170 Å°C	338 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	160 Å°C	320 Å°F	
Vicat Softening Point	165 Å°C @Load 5.00 kg	329 Å°F @Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 210 Å°C	356 - 410 Å°F	
Mold Temperature	80.0 - 100 Å°C	176 - 212 Å°F	
Drying Temperature	80.0 - 90.0 Å°C @Time 10800 sec	176 - 194 Å°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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