

LATI Latamid 12 H2 G/30 PA 12, 30% Glass Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

Polyamide 12 (PA12) based compound. Heat stabilized. Glass 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-12-H2-G30-PA-12-30-Glass-Fiber-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	50.0 MPa	7250 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	60.0 MPa	8700 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	75.0 MPa	10900 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	100 MPa	14500 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	8.0 %	8.0 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	11 %	11 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	12 %	12 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	16 %	16 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Elongation at Yield	6.5 %	6.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	>= 10 %	>= 10 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	>= 10 %	>= 10 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	>= 10 %	>= 10 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	>= 10 %	>= 10 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.10 GPa	305 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	2.70 GPa	392 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	3.20 GPa	464 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	4.00 GPa	580 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	6.60 GPa	957 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	7.00 J/cmÂ²	33.3 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	8.00 J/cmÂ²	38.1 ft-lb/inÂ²	
	@Temperature -20.0	@Temperature -4.00	

Mechanical Properties	°C Metric	°F English	Comments
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	
Vicat Softening Point	170 °C	338 °F	
	@Load 5.00 kg	@Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 230 °C	410 - 446 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	70.0 - 90.0 °C	158 - 194 °F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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