

LATI Latamid 6 H2 G/20-V0 PA 6, 20% Glass Fiber Reinforced, Heat Stabilized, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Polyamide 6 (PA6) based compound. Heat stabilized. Glass fibers. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE and antimony trioxide free. 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-6-H2-G20-V0-PA-6-20-Glass-Fiber-Reinforced-Heat-Stabilized-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	
Linear Mold Shrinkage, Transverse	0.0055 - 0.0080 cm/cm	0.0055 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	10.0 MPa	1450 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	20.0 MPa	2900 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	25.0 MPa	3630 psi	
@Temperature 90.0 Â°C	@Temperature 194 Â°F		
40.0 MPa	@Temperature 60.0 Â°C	5800 psi	@Temperature 140 Â°F
	55.0 MPa	7980 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	
1.2 %	1.2 %		
@Temperature 60.0 Â°C	@Temperature 140 Â°F		

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.5 %	2.5 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	5.0 %	5.0 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Elongation at Yield	1.7 %	1.7 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.0 %	2.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.5 %	2.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.40 GPa	348 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	3.00 GPa	435 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	3.60 GPa	522 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	6.50 GPa	943 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	8.00 GPa	1160 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	
	@Temperature 23.0	@Temperature 73.4 Â°F	

Mechanical Properties	Metric Â°C 0.400 J/cmÂ²	English 1.50 ft-lb/inÂ²	Comments
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	85.0 Â°C	185 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	
Vicat Softening Point	210 Â°C @Load 5.00 kg	410 Â°F @Load 11.0 lb	
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	29 %	29 %	
Glow Wire Test	775 Â°C @Thickness 1.00 mm	1430 Â°F @Thickness 0.0394 in	GWIT
	800 Â°C @Thickness 2.00 mm	1470 Â°F @Thickness 0.0787 in	GWIT
	960 Â°C @Thickness 1.00 mm	1760 Â°F @Thickness 0.0394 in	GWFI/GWT
	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	300 V	300 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	
Mold Temperature	70.0 - 100 Â°C	158 - 212 Â°F	
	90.0 - 100 Â°C	194 - 212 Â°F	

Driving Temperature Processing Properties	Metric @ Time 10800 sec	English @ Time 3.00 hour	Comments
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Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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