

LATI Latamid SP2 H2 G/45 PA 6.12, 45% Glass Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Glass Fiber Filler

Material Notes:

Polyamide 6.12 (PA6.12) based compound. Heat stabilized. Glass fibers. Low moisture absorption. 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-SP2-H2-G45-PA-612-45-Glass-Fiber-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	100 MPa	14500 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	115 MPa	16700 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	140 MPa	20300 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	190 MPa	27600 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	3.3 %	3.3 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	4.3 %	4.3 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	5.0 %	5.0 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	6.2 %	6.2 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	4.00 GPa	580 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	4.80 GPa	696 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	6.90 GPa	1000 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	8.00 GPa	1160 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	11.5 GPa	1670 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	
Vicat Softening Point	210 Â°C	410 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 Â°C	482 - 536 Â°F	
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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