

Latamid 12 G/50

Polyamide 12

LATI S.p.A.

Message:

Compound based on Polyamide 12 (PA 12).
Glass fibres.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.75 to 1.0	%	
Flow : 2.00 mm	0.35 to 0.55	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	10500	MPa	
60°C	6300	MPa	
90°C	5100	MPa	
120°C	4300	MPa	
150°C	3300	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	150	MPa	
Break, 60°C	110	MPa	
Break, 90°C	90.0	MPa	
Break, 120°C	80.0	MPa	
Break, 150°C	55.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	6.0	%	
Break, 23°C	4.5	%	
Break, 60°C	6.0	%	
Break, 90°C	7.0	%	
Break, 120°C	8.0	%	
Break, 150°C	9.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	220	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	190	°C	ISO 75-2/B
1.8 MPa, Unannealed	185	°C	ISO 75-2/A
Continuous Use Temperature ²	120	°C	
Vicat Softening Temperature	180	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	8.0E-6	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 to 240	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 MPa of cavity pressure		
2.	20,000 hr		

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