Latamid 12 H2 G/30

Polyamide 12

LATI S.p.A.

Message:

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

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.23	g/cm³	ISO 1183
Molding Shrinkage [1]			ISO 294-4
Across Flow : 2.00 mm	0.80 to 1.1	%	
Flow : 2.00 mm	0.40 to 0.70	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2/1
23°C	6600	MPa	
60°C	4000	MPa	
90°C	3200	MPa	
120°C	2700	MPa	
150°C	2100	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	100	MPa	
Yield, 60°C	75.0	MPa	
Yield, 90°C	60.0	MPa	
Yield, 120°C	50.0	MPa	
Yield, 150°C	35.0	MPa	
Break, 23°C	100	MPa	
Break, 60°C	75.0	MPa	
Break, 90°C	60.0	MPa	
Break, 120°C	50.0	MPa	
Break, 150°C	35.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	7.0	%	
Yield, 60°C	> 10	%	
Yield, 90°C	> 10	%	
Yield, 120°C	> 10	%	
Yield, 150°C	> 10	%	

Break, 23°C	8.0	%	
Break, 60°C	11	%	
Break, 90°C	12	%	
Break, 120°C	14	%	
Break, 150°C	16	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	10	kJ/m^2	
23°C	15	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	80	kJ/m^2	
23°C	70	kJ/m^2	
Notched Izod Impact (23°C, 3.20 mm)	130	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	180	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°C	ISO 75-2/A
Continuous Use Temperature [2]	120	°C	
Vicat Softening Temperature	170	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.0E-5	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	210 to 230	°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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