

Latamid 6 H2 G/20-V0

Polyamide 6

LATI S.p.A.

Message:

Compound based on Polyamide 6 (PA 6).

Heat stabilised. Glass fibres. UL94 V-0 classified, with halogens, PBB/PBDE and antimonium trioxide free.

General Information	
UL YellowCard	E54080-243971
Filler / Reinforcement	Glass Fiber,20% Filler by Weight
Additive	Flame Retardant
	Heat Stabilizer
Features	Antimony Free
	Flame Retardant
	Halogenated
	Heat Stabilized

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	0.55 to 0.80	%	
Flow : 2.00 mm	0.40 to 0.65	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	8000	MPa	
60°C	6500	MPa	
90°C	3600	MPa	
120°C	3000	MPa	
150°C	2400	MPa	
Tensile Stress			ISO 527-2/5
Yield, 90°C	30.0	MPa	
Yield, 120°C	25.0	MPa	
Yield, 150°C	20.0	MPa	
Break, 23°C	55.0	MPa	
Break, 60°C	40.0	MPa	
Break, 90°C	25.0	MPa	
Break, 120°C	20.0	MPa	
Break, 150°C	10.0	MPa	
Tensile Strain			ISO 527-2/5

Yield, 90°C	1.7	%	
Yield, 120°C	2.0	%	
Yield, 150°C	2.0	%	
Break, 23°C	1.0	%	
Break, 60°C	1.2	%	
Break, 90°C	2.0	%	
Break, 120°C	2.5	%	
Break, 150°C	5.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m ²	
23°C	15	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	50	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Continuous Use Temperature ²	85.0	°C	
Vicat Softening Temperature	210	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index ³ (Solution A)	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	775	°C	
2.00 mm	800	°C	
Oxygen Index	29	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	70.0 to 100	°C	
Injection Rate	Moderate		

NOTE

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|----|------------------------------|
| 1. | at 60 MPa of cavity pressure |
| 2. | 20,000 hr |
| 3. | Without Surfactant |

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