

Latamid 66 H2 G/50-V0HF1

Polyamide 66

LATI S.p.A.

Message:

Compound based on Polyamide 66 (PA 66).
Heat stabilised. Glass fibres. UL94 V-0 classified, halogens and red phosphorous free.
PHYSICAL PROPERTIES - Typical values

General Information			
UL YellowCard	E54080-101837851		
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		

Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.75 to 1.1	%	
Flow : 2.00 mm	0.25 to 0.60	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	16000	MPa	
60°C	11500	MPa	
90°C	7100	MPa	
120°C	6000	MPa	
150°C	5300	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	175	MPa	
Break, 60°C	125	MPa	
Break, 90°C	95.0	MPa	
Break, 120°C	90.0	MPa	
Break, 150°C	80.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	2.0	%	
Break, 60°C	2.8	%	
Break, 90°C	3.6	%	
Break, 120°C	4.0	%	
Break, 150°C	4.2	%	

Impact	Nominal Value	Unit	Test Method
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Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	90	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	260	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Continuous Use Temperature ²	130	°C	
Vicat Softening Temperature	255	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	4.0E-6	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
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	775	°C	
Oxygen Index	32	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	270 to 290	°C	
Mold Temperature	70.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 MPa of cavity pressure		
2.	20,000 hr		

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