

Latamid 66 H2E21 G/13

Polyamide 66

LATI S.p.A.

Message:

Compound based on Polyamide 66 (PA 66). Heat stabilised. Toughened. Glass fibres.
Very good impact resistance. Good flexibility even at low temperatures.

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.1 to 1.4	%	
Flow : 2.00 mm	0.55 to 0.85	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	4600	MPa	
60°C	3700	MPa	
90°C	2100	MPa	
120°C	1700	MPa	
150°C	1500	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	100	MPa	
Yield, 60°C	70.0	MPa	
Yield, 90°C	55.0	MPa	
Yield, 120°C	45.0	MPa	
Yield, 150°C	40.0	MPa	
Break, 23°C	100	MPa	
Break, 60°C	70.0	MPa	
Break, 90°C	50.0	MPa	
Break, 120°C	45.0	MPa	
Break, 150°C	35.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	3.0	%	
Yield, 60°C	4.0	%	
Yield, 90°C	8.0	%	
Yield, 120°C	8.0	%	

Yield, 150°C	7.0	%	
Break, 23°C	4.0	%	
Break, 60°C	7.0	%	
Break, 90°C	12	%	
Break, 120°C	12	%	
Break, 150°C	10	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	55	kJ/m ²	
23°C	65	kJ/m ²	
Notched Izod Impact			ASTM D256A
-20°C, 3.20 mm	45	J/m	
23°C, 3.20 mm	120	J/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	230	°C	ISO 75-2/A
Continuous Use Temperature ²	90.0	°C	
Vicat Softening Temperature	235	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-5	cm/cm/°C	ASTM D696
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 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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