

Latamid 6 S/30

Polyamide 6

LATI S.p.A.

Message:

Compound based on Polyamide 6 (PA 6).
Glass beads.
Very good dimensional stability.

General Information			
Features	Good Dimensional Stability		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.0 to 1.3	%	
Flow : 2.00 mm	0.90 to 1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	4200	MPa	
60°C	2000	MPa	
90°C	1100	MPa	
120°C	700	MPa	
150°C	600	MPa	
Tensile Stress			ISO 527-2/5
Yield, 60°C	50.0	MPa	
Yield, 90°C	35.0	MPa	
Yield, 120°C	25.0	MPa	
Yield, 150°C	20.0	MPa	
Break, 23°C	70.0	MPa	
Break, 60°C	45.0	MPa	
Break, 90°C	35.0	MPa	
Break, 120°C	25.0	MPa	
Break, 150°C	20.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 60°C	8.0	%	
Yield, 90°C	12	%	
Yield, 120°C	12	%	
Yield, 150°C	14	%	
Break, 23°C	4.0	%	
Break, 60°C	10	%	
Break, 90°C	15	%	
Break, 120°C	20	%	

Break, 150°C	35	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	30	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	195	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Continuous Use Temperature ²	90.0	°C	
Vicat Softening Temperature	205	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.5E-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	240 to 260	°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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