

Latamid 66 S/30

Polyamide 66

LATI S.p.A.

Message:

Polyamide 66 (PA66) based compound.

Glass beads.

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.90 to 1.2	%	
Flow : 2.00 mm	0.90 to 1.2	%	
Water Absorption (23°C, 24 hr)	0.27	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	4700	MPa	
60°C	2200	MPa	
90°C	1200	MPa	
120°C	800	MPa	
150°C	640	MPa	
Tensile Stress			ISO 527-2/5
Yield, 60°C	60.0	MPa	
Yield, 90°C	40.0	MPa	
Yield, 120°C	30.0	MPa	
Yield, 150°C	25.0	MPa	
Break, 23°C	85.0	MPa	
Break, 60°C	55.0	MPa	
Break, 90°C	40.0	MPa	
Break, 120°C	30.0	MPa	
Break, 150°C	25.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 60°C	10	%	
Yield, 90°C	14	%	
Yield, 120°C	15	%	
Yield, 150°C	16	%	
Break, 23°C	5.0	%	
Break, 60°C	15	%	
Break, 90°C	20	%	

Break, 120°C	25	%	
Break, 150°C	45	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	0.80	kJ/m ²	
23°C	1.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m ²	
23°C	20	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	235	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Continuous Use Temperature ²	90.0	°C	
Vicat Softening Temperature	225	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-5	cm/cm/°C	ISO 11359-2
Additional Information	Nominal Value		
Dimensional Stability	70.0		
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	15	%	
Processing (Melt) Temp	275 to 300	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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