

Latamid 66 H2 K/40

Polyamide 66

LATI S.p.A.

Message:

Compound based on Polyamide 66 (PA 66). Heat stabilised. Carbon fibre.

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.45 to 0.70	%	
Flow : 2.00 mm	0.15 to 0.35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	25500	MPa	
60°C	23000	MPa	
90°C	16000	MPa	
120°C	11000	MPa	
150°C	8200	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	220	MPa	
Break, 60°C	170	MPa	
Break, 90°C	145	MPa	
Break, 120°C	125	MPa	
Break, 150°C	105	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.2	%	
Break, 60°C	1.8	%	
Break, 90°C	2.7	%	
Break, 120°C	3.0	%	
Break, 150°C	3.2	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	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	255	°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)	2.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Volume Resistivity	8.0E+2	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 MPa of cavity pressure		
2.	20,000 hr		

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