

Lastilac RT K/10

Acrylonitrile Butadiene Styrene

LATI S.p.A.

Message:

Compound based on Acrylonitrile-Butadiene-Styrene copolymer (ABS).
Carbon fibre.
High dimensional stability.

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Copolymer		
	Good Dimensional Stability		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.50 to 0.80	%	
Flow : 2.00 mm	0.25 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	8300	MPa	
60°C	7500	MPa	
90°C	6000	MPa	
Tensile Stress			ISO 527-2/5
Yield, 90°C	30.0	MPa	
Break, 23°C	60.0	MPa	
Break, 60°C	45.0	MPa	
Break, 90°C	30.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 90°C	0.60	%	
Break, 23°C	0.70	%	
Break, 60°C	0.70	%	
Break, 90°C	0.70	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.0	kJ/m ²	
23°C	4.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	10	kJ/m ²	
23°C	10	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	50	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	105	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Continuous Use Temperature ²	75.0	°C	
Vicat Softening Temperature	105	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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