

Latilon 28D G/20

Polycarbonate

LATI S.p.A.

Message:

Compound based on Polycarbonate (PC).

Glass fibres. Product UL certified.

Low smoke toxicity index and optical density. High dimensional stability.

General Information			
UL YellowCard	E54080-244042		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Low Optical Density		
	Low Smoke Emission		

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.40 to 0.60	%	
Flow : 2.00 mm	0.20 to 0.40	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	5900	MPa	
60°C	5300	MPa	
90°C	4900	MPa	
120°C	4800	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	85.0	MPa	
Break, 60°C	75.0	MPa	
Break, 90°C	60.0	MPa	
Break, 120°C	50.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	2.0	%	
Break, 60°C	1.9	%	
Break, 90°C	1.7	%	
Break, 120°C	1.6	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.5	kJ/m ²	
23°C	7.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU

-20°C	30	kJ/m ²	
23°C	25	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	100	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ISO 75-2/A
Continuous Use Temperature ²	130	°C	
Vicat Softening Temperature	145	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-1		UL 94
Oxygen Index	31	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	120 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	100 to 120	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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