

Latilon 28D K/40

Polycarbonate

LATI S.p.A.

Message:

Polycarbonate (PC) based compound.

Carbon fibre. Low smoke density and low toxicity index.

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Low Smoke Emission		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.15 to 0.30	%	
Flow : 2.00 mm	0.050 to 0.15	%	
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	18000	MPa	
60°C	17000	MPa	
90°C	15500	MPa	
120°C	14000	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	135	MPa	
Break, 60°C	115	MPa	
Break, 90°C	100	MPa	
Break, 120°C	75.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.4	%	
Break, 60°C	1.5	%	
Break, 90°C	1.4	%	
Break, 120°C	1.6	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	145	°C	ISO 75-2/B
1.8 MPa, Unannealed	140	°C	ISO 75-2/A
Continuous Use Temperature ²	135	°C	

Vicat Softening Temperature	145	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.0E-6	cm/cm/°C	ISO 11359-2
Additional Information		Nominal Value	
Dimensional Stability	76.0		
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-Fast		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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