

LATILON 30D G/10-V0

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polycarbonate*
General Information
Product Description

Compound based on Polycarbonate (PC). Glass fibres. Flame retardant, UL94 V-0 class, free of brominated and chlorinated halogens-based flame retardants. Low smoke density and low toxicity index. High dimensional stability.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant		
Features	• Bromine Free	• Chlorine Free	• Flame Retardant

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.26	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.55 to 0.75	%	
Flow : 0.0787 in	0.40 to 0.65	%	
Water Absorption ³ (Saturation, 73°F)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	508000	psi	
140°F	435000	psi	
194°F	406000	psi	
248°F	319000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	8700	psi	
Yield, 140°F	7250	psi	
Yield, 194°F	6530	psi	
Yield, 248°F	4350	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	6530	psi	
Break, 140°F	3630	psi	
Break, 194°F	No Break		
Break, 248°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	4.5	%	
Yield, 140°F	3.5	%	
Yield, 194°F	3.0	%	
Yield, 248°F	2.5	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	25	%	
Break, 140°F	30	%	
Break, 194°F	> 50	%	
Break, 248°F	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	29	ft·lb/in ²	ISO 179/1eU



Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	284	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	266	°F	ISO 75-2/A
Vicat Softening Temperature	293	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.6E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	480	V/mil	ASTM D149
Comparative Tracking Index ⁴ (Solution A)	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in		V-2	
0.06 in		V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in	1560	°F	
0.08 in	1560	°F	
Oxygen Index	34	%	ASTM D2863

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

⁴ Without surfactant

