

LATILON 28D

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

Compound based on Polycarbonate (PC). Low smoke density and low toxicity index. Very high dimensional stability. Very good surface appearance. PFAS-free product.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• PFAS Free

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.20	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.70 to 0.90	%	
Flow : 0.0787 in	0.70 to 0.90	%	
Water Absorption ³ (Saturation, 73°F)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	348000	psi	
140°F	305000	psi	
194°F	261000	psi	
248°F	232000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	8700	psi	
Yield, 140°F	7250	psi	
Yield, 194°F	5800	psi	
Yield, 248°F	4350	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	No Break		
Break, 140°F	No Break		
Break, 194°F	No Break		
Break, 248°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	6.0	%	
Yield, 140°F	4.5	%	
Yield, 194°F	3.5	%	
Yield, 248°F	2.5	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	> 50	%	
Break, 140°F	> 50	%	
Break, 194°F	> 50	%	
Break, 248°F	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	3.8	ft·lb/in ²	
73°F	4.8	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU



-4°F	No Break		
73°F	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	275	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	257	°F	ISO 75-2/A
Vicat Softening Temperature	284	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	3.9E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.9E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- 4	1.4	Btu·in/hr/ft ² /°F	
-- 5	1.4	Btu·in/hr/ft ² /°F	
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))	410	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	26	%	ASTM D2863

Notes

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

² 60 MPa

³ in air

⁴ through plane

⁵ in plane

