

LATER 4 G/30-V0CT2

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polybutylene Terephthalate*
General Information
Product Description

Compound based on Polybutylene Terephthalate (PBT). Glass fibres. Flame retardant, UL94 V-0 class, with brominated flame retardants, free of PBB/PBDE.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.65	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.90 to 1.2	%	
Flow : 0.0787 in	0.30 to 0.50	%	
Water Absorption ³ (Saturation, 73°F)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.13E+6	psi	
140°F	783000	psi	
194°F	493000	psi	
248°F	363000	psi	
302°F	261000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	11600	psi	
Break, 140°F	7250	psi	
Break, 194°F	4350	psi	
Break, 248°F	2900	psi	
Break, 302°F	2180	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.0	%	
Break, 140°F	2.3	%	
Break, 194°F	2.6	%	
Break, 248°F	2.7	%	
Break, 302°F	2.8	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	3.3	ft·lb/in ²	
73°F	4.3	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	17	ft·lb/in ²	
73°F	17	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	365	°F	ISO 75-2/A



Vicat Softening Temperature	383 °F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.7E-5 in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.3E-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))	740 V/mil	ASTM D149
Comparative Tracking Index ⁶ (Solution A)	400 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.030 in	V-0	
0.06 in	V-0	
0.12 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	1380 °F	
0.08 in	1380 °F	
Oxygen Index	28 %	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

⁶ Without Surfactant

