

LATER 4 G/30-V0HF1

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

Compound based on Polybutylene Terephthalate (PBT). Glass fibres. Flame retardant, UL94 V-0 class, free of halogens-based flame retardants and red phosphorous. PFAS-free product.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber 		
Additive	<ul style="list-style-type: none"> Flame Retardant 		
Features	<ul style="list-style-type: none"> Flame Retardant Halogen Free 	<ul style="list-style-type: none"> Low (to None) Phosphorus Content PFAS Free 	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.56	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.95 to 1.3	%	
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	1.74E+6	psi	
140°F	1.31E+6	psi	
194°F	986000	psi	
248°F	827000	psi	
302°F	653000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	15200	psi	
Break, 140°F	11600	psi	
Break, 194°F	10200	psi	
Break, 248°F	7980	psi	
Break, 302°F	6530	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.8	%	
Break, 140°F	2.0	%	
Break, 194°F	2.5	%	
Break, 248°F	3.3	%	
Break, 302°F	4.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	12	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	428	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	419	°F	ISO 75-2/A
Vicat Softening Temperature	401	°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)	3.6E-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))	710	V/mil	ASTM D149
Comparative Tracking Index ⁶ (Solution A)	600	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	
0.06 in		1760 °F	
0.08 in		1760 °F	
0.12 in		1760 °F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in		1520 °F	
0.06 in		1520 °F	
0.08 in		1520 °F	
0.12 in		1760 °F	
Oxygen Index	40	%	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

