LATER 4 G/50

LATI INDUSTRIA TERMOPLASTICI SPA - *Polybutylene Terephthalate*

General Information

Product Description

Compound based on Polybutylene Terephthalate (PBT). Glass fibres. High stiffness. PFAS-free product.

General

Material Status	• Commercial: Active

Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	

Filler / Reinforcement	• Glass Fiber
Features	• PFAS Free

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.74	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.70 to 0.90	%	
Flow : 0.0787 in	0.25 to 0.40	%	
Water Absorption [3] (Saturation, 73°F)	0.14	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	2.47E+6	psi	
140°F	1.45E+6	psi	
194°F	1.12E+6	psi	
248°F	928000	psi	
302°F	754000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	21800	psi	
Break, 140°F	13800	psi	
Break, 194°F	10900	psi	
Break, 248°F	7980	psi	
Break, 302°F	6530	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.0	%	
Break, 140°F	2.4	%	
Break, 194°F	2.6	%	
Break, 248°F	2.8	%	
Break, 302°F	3.0	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	3.8	ft·lb/in²	
73°F	4.3	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	21	ft·lb/in²	
73°F	24	ft·lb/in²	

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)	410	°F	ISO 75-2/A
Vicat Softening Temperature	419	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2

	Nominal Value	Unit	Test Method
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/ft²/°F	
-- [5]	2.1	Btu·in/hr/ft²/°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))	760	V/mil	ASTM D149

<div align="center">Notes</div>

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

[2] 60 MPa

[3] in air

[4] through plane

[5] in plane