

**LATER 4 G/30**

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

Compound based on Polybutylene Terephthalate (PBT). Glass fibres. 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 <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.53	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	1.0 to 1.3	%	
Flow : 0.0787 in	0.30 to 0.55	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.49E+6	psi	
140°F	1.16E+6	psi	
194°F	725000	psi	
248°F	522000	psi	
302°F	363000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	18100	psi	
Break, 140°F	12300	psi	
Break, 194°F	8700	psi	
Break, 248°F	7250	psi	
Break, 302°F	5800	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.3	%	
Break, 140°F	3.0	%	
Break, 194°F	5.3	%	
Break, 248°F	6.0	%	
Break, 302°F	6.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	1.9	ft·lb/in <sup>2</sup>	
73°F	3.8	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	17	ft·lb/in <sup>2</sup>	
73°F	24	ft·lb/in <sup>2</sup>	
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)	1.7E-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 <sup>2</sup> /°F	
-- 5	1.4 Btu·in/hr/ft <sup>2</sup> /°F	
<b>Electrical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+12 ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	760 V/mil	ASTM D149
Comparative Tracking Index <sup>6</sup> (Solution A)	475 V	IEC 60112
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Flame Rating		UL 94
0.030 in	HB	
0.06 in	HB	
0.12 in	HB	
Oxygen Index	23 %	ASTM D2863

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60 MPa

<sup>3</sup> in air

<sup>4</sup> through plane

<sup>5</sup> in plane

<sup>6</sup> without surfactant

