

LATER 4 G/20

Polybutylene Terephthalate

LATI INDUSTRIA TERMOPLASTICI SPA

PROSPECTOR®

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Technical Data

Product Description

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

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet		
UL Yellow Card ²	• E54080-244031		
Search for UL Yellow Card	• LATI INDUSTRIA TERMOPLASTICI SPA		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• PFAS Free		

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.45 g/cm ³	ISO 1183
Molding Shrinkage ⁴		ISO 294-4
Across Flow : 2.00 mm	1.2 to 1.5 %	
Flow : 2.00 mm	0.50 to 0.75 %	
Water Absorption ⁵ (Saturation, 23°C)	0.18 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	6300 MPa	ISO 527-1/1
Tensile Stress (Break, 23°C)	110 MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.2 %	ISO 527-2/5

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-20°C	6.0 kJ/m ²	
23°C	8.0 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-20°C	35 kJ/m ²	
23°C	90 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	210 °C	ISO 75-2/B
1.8 MPa, Unannealed	205 °C	ISO 75-2/A
Vicat Softening Temperature	220 °C	ISO 306/B120
CLTE		ISO 11359-2
Flow : 30 to 100°C	3.5E-5 cm/cm/°C	
Transverse : 30 to 100°C	8.0E-5 cm/cm/°C	
Thermal Conductivity ⁶	0.20 W/m/K	ASTM E1461

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+12 ohms	ASTM D257
Dielectric Strength		ASTM D149
23°C, 2.00 mm, Method A (Short-Time)	20 kV/mm	



Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 60 MPa

⁵ in air

⁶ through plane



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Where to Buy

Supplier

LATI INDUSTRIA TERMOPLASTICI SPA

, Italy

Telephone: +39-332-409111

Web: <http://www.lati.com/>

Distributor

PolySource

PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>

Telephone: 816-540-5300

Web: <http://www.polysource.net/>

Availability: Canada, Mexico, United States

Star Plastics

Star Plastics and LATI have joined together to create an alliance to expand nylon and specialty material accessibility throughout North America and Asia. Contact Star Plastic for availability of individual products.

Telephone: 304-273-5326

Web: <https://www.starplastics.com/>

Availability: North America

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Turkey

