

**LATICONTER 52/11 GR/50**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polypropylene Homopolymer*
**General Information**
**Product Description**

High thermal conductivity product based on Polypropylene homopolymer (PPH). Graphite. PFAS-free product.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Graphite Powder Lubricant		
Features	• Homopolymer	• PFAS Free	
	• Lubricated	• Thermally Conductive	

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.30	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.50 to 1.0	%	
Flow : 0.0787 in	0.50 to 1.1	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	653000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	3630	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	2.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	4.8	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	275	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	185	°F	ISO 75-2/A
Vicat Softening Temperature	203	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	6.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	6.7E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- <sup>4</sup>	5.6	Btu·in/hr/ft <sup>2</sup> /°F	
-- <sup>5</sup>	38	Btu·in/hr/ft <sup>2</sup> /°F	

**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
