

**LATICONTER 62 GR/50-V0**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 6*
**General Information**
**Product Description**

High thermal conductivity product based on Polyamide 6 (PA 6). Graphite. Flame retardant, UL94 V-0 class, free of halogens-based flame retardants and red phosphorous. High stiffness. PFAS-free product.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
	• Graphite Powder Lubricant		
Features	• Flame Retardant	• Low (to None) Phosphorus Content	• PFAS Free
	• Halogen Free	• Lubricated	• Thermally Conductive

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density (73°F)	1.68	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.30 to 0.75	%	
Flow : 0.0787 in	0.25 to 0.50	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	1.2	%	ISO 62
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus (73°F)	1.39E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	5800	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	0.50	%	ISO 527-2/5
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (73°F)	0.95	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	2.1	ft·lb/in <sup>2</sup>	ISO 179/1eU
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	356	°F	ISO 75-2/A
Vicat Softening Temperature	401	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.7E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- <sup>4</sup>	14	Btu·in/hr/ft <sup>2</sup> /°F	
-- <sup>5</sup>	120	Btu·in/hr/ft <sup>2</sup> /°F	
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	2.0E+3	ohms	ASTM D257
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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	
Glow Wire Ignition Temperature			IEC 60695-2-13



0.04 in	1650 °F	
0.08 in	1650 °F	
Oxygen Index	41 %	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

