

**LARAMID G/60**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyphthalamide*
**General Information**
**Product Description**

Compound based on Semi-aromatic polyamide (PPA). Glass fibres. Very good thermal properties. Good chemical resistance. Low moisture absorption. PFAS-free product.

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber
Features	• High Heat Resistance • PFAS Free
Uses	• High Temperature Applications

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

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.78	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.55 to 0.75	%	
Flow : 0.0787 in	0.15 to 0.40	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	3.48E+6	psi	
140°F	2.84E+6	psi	
194°F	2.67E+6	psi	
248°F	1.89E+6	psi	
302°F	1.02E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	39900	psi	
Break, 140°F	34800	psi	
Break, 194°F	31200	psi	
Break, 248°F	23900	psi	
Break, 302°F	14500	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.8	%	
Break, 140°F	1.9	%	
Break, 194°F	2.2	%	
Break, 248°F	3.3	%	
Break, 302°F	5.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.1	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	33	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	581	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	536	°F	ISO 75-2/A
Vicat Softening Temperature	536	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	8.3E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.7E-5	in/in/°F	ISO 11359-2
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))	640 V/mil	ASTM D149
Comparative Tracking Index <sup>4</sup> (Solution A)	600 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	
Glow Wire Flammability Index (0.04 in)	1380 °F	IEC 60695-2-12
Oxygen Index	42 %	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> without surfactant

