

LARAMID G/15

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 ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.30	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.80 to 1.0	%	
Flow : 0.0787 in	0.55 to 0.75	%	
Water Absorption ³ (Saturation, 73°F)	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.09E+6	psi	
140°F	899000	psi	
194°F	841000	psi	
248°F	696000	psi	
302°F	334000	psi	
Tensile Stress			ISO 527-2/5
Yield, 248°F	11600	psi	
Yield, 302°F	7980	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	16000	psi	
Break, 140°F	15200	psi	
Break, 194°F	14500	psi	
Break, 248°F	10900	psi	
Break, 302°F	7980	psi	
Tensile Strain			ISO 527-2/5
Yield, 248°F	3.5	%	
Yield, 302°F	10	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.8	%	
Break, 140°F	2.2	%	
Break, 194°F	2.5	%	
Break, 248°F	5.2	%	
Break, 302°F	12	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	1.9	ft·lb/in ²	
73°F	1.9	ft·lb/in ²	



Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F		8.1 ft·lb/in ²	
73°F		9.5 ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	563	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	545	°F	ISO 75-2/A
Vicat Softening Temperature	518	°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)	2.8E-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))	560	V/mil	ASTM D149

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

