

LATAMID 12 H2 G/30

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 12*

General Information

Product Description

Compound based on Polyamide 12 (PA 12). Improved thermal stabilisation. Glass fibres. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• Good Thermal Stability	• PFAS Free	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.22	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.75 to 0.95	%	
Flow : 0.0787 in	0.15 to 0.35	%	
Water Absorption ³ (Saturation, 73°F)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	914000	psi	
140°F	580000	psi	
194°F	464000	psi	
248°F	392000	psi	
302°F	305000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	11600	psi	
Yield, 140°F	10900	psi	
Yield, 194°F	8700	psi	
Yield, 248°F	7250	psi	
Yield, 302°F	5080	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	14500	psi	
Break, 140°F	10900	psi	
Break, 194°F	8700	psi	
Break, 248°F	7250	psi	
Break, 302°F	5080	psi	
Tensile Strain			ISO 527-2/5
Yield, 73°F	1.8	%	
Yield, 140°F	9.0	%	
Yield, 194°F	> 10	%	
Yield, 248°F	> 10	%	
Yield, 302°F	> 10	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	8.0	%	
Break, 140°F	11	%	
Break, 194°F	12	%	
Break, 248°F	14	%	
Break, 302°F	16	%	



Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	12	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	43	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	338	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	311	°F	ISO 75-2/A
Vicat Softening Temperature	347	°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)	4.2E-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

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 60 MPa
- ³ in air

