

LATAMID 12 H2 K/30

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 12*

General Information

Product Description

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

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.15	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.35 to 0.45	%	
Flow : 0.0787 in	0.050 to 0.20	%	
Water Absorption ³ (Saturation, 73°F)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	2.10E+6	psi	
140°F	1.33E+6	psi	
194°F	1.00E+6	psi	
248°F	682000	psi	
302°F	522000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	21800	psi	
Break, 140°F	15200	psi	
Break, 194°F	12300	psi	
Break, 248°F	9430	psi	
Break, 302°F	7250	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	3.1	%	
Break, 140°F	4.4	%	
Break, 194°F	5.0	%	
Break, 248°F	5.9	%	
Break, 302°F	6.6	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.1	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	26	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	347	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	329	°F	ISO 75-2/A
Vicat Softening Temperature	347	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.2E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	50	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	76	V/mil	ASTM D149



Notes

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

² 60 MPa

³ in air

