

LATAMID 12 AM H2 K/15

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 12*

General Information

Product Description

Compound based on Polyamide 12 (PA 12). 3D printing version. 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	
Uses	• Additive Manufacturing (3D Printing)		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.08	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.40 to 0.50	%	
Flow : 0.0787 in	0.15 to 0.30	%	
Water Absorption ³ (Saturation, 73°F)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.23E+6	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	11600	psi	ISO 527-2/5
Tensile Stress (Break, 73°F)	16700	psi	ISO 527-2/5
Tensile Strain (Yield, 73°F)	1.3	%	ISO 527-2/5
Tensile Strain (Break, 73°F)	4.8	%	ISO 527-2/5
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)	24	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)	320	°F	ISO 75-2/A
Vicat Softening Temperature	338	°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)	3.6E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	100	V/mil	ASTM D149

Notes

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

² 60 MPa

³ in air

