

LARAMID T K/40 HM

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 9T*

General Information

Product Description

Compound based on Special semi-aromatic polyamide (PA9T). Carbon fibres. High tensile modulus. 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	• Carbon Fiber
Features	• High Heat Resistance • PFAS Free
Uses	• High Temperature Applications

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.31	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.50 to 0.70	%	
Flow : 0.0787 in	0.10 to 0.30	%	
Water Absorption ³ (Saturation, 73°F)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	4.35E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	43500	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.2	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	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)	572	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	554	°F	ISO 75-2/A
Vicat Softening Temperature	536	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.7E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.1E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10	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

