

LARAMID T K/35

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 9T*

General Information

Product Description

Compound based on Special semi-aromatic polyamide (PA9T). Carbon 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	• Carbon 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	0.65 to 0.85	%	
Flow : 0.0787 in	0.15 to 0.35	%	
Water Absorption ³ (Saturation, 73°F)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	3.19E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	35500	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.4	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	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)	2.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	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

