

LATICONTHER 62 CP9/450-V0HF

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 6*

General Information

Product Description

High thermal conductivity product based on Polyamide 6 (PA 6). Special filler. Flame retardant, UL94 V-0 class, free of halogens-based flame retardants and red phosphorous. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Filler		
Additive	• Flame Retardant		
Features	• Flame Retardant • Halogen Free	• Low (to None) Phosphorus Content • PFAS Free	• Thermally Conductive

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.48	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.50 to 0.65	%	
Flow : 0.0787 in	0.30 to 0.45	%	
Water Absorption ³ (Saturation, 73°F)	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	972000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	8700	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	2.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.4	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	9.5	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	374	°F	ISO 75-2/A
Vicat Softening Temperature	401	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.9E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.5E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
⁴	6.9	Btu·in/hr/ft ² /°F	
⁵	11	Btu·in/hr/ft ² /°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-2		
0.06 in	V-0		
0.12 in	V-0		
Glow Wire Flammability Index (0.06 in)	1760	°F	IEC 60695-2-12

Notes

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

² 60 MPa

³ in air

