

LATICONTHER 62 CP6/650-V0HF1

 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 halogen-based flame retardants and red phosphorous. High stiffness. 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)	1.69	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.45 to 0.80	%	
Flow : 0.0787 in	0.25 to 0.40	%	
Water Absorption ³ (Saturation, 73°F)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.81E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	12300	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)	1.9	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ISO 75-2/A
Vicat Softening Temperature	410	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.9E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ⁴	10	Btu·in/hr/ft ² /°F	
-- ⁵	28	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Comparative Tracking Index ⁶ (Solution A)	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-1		
0.06 in	V-1		
0.12 in	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°F	



Glow Wire Ignition Temperature		IEC 60695-2-13
0.04 in	1430 °F	
0.08 in	1430 °F	
Oxygen Index	40 %	ASTM D2863

Notes

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

² 60 MPa

³ in air

⁴ through plane

⁵ in plane

⁶ without surfactant

