

LATICONTER 82 CP1/800

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 12*

General Information

Product Description

High thermal conductivity product based on Polyamide 12 (PA 12). Special filler. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Filler		
Features	• PFAS Free	• Thermally Conductive	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	2.14	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.15 to 0.25	%	
Flow : 0.0787 in	0.10 to 0.20	%	
Water Absorption ³ (Saturation, 73°F)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.74E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	5800	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	0.50	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	0.71	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	2.4	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	329	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ISO 75-2/A
Vicat Softening Temperature	320	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	5.6E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	8.3E-6	in/in/°F	ISO 11359-2
Thermal Conductivity ⁴	66	Btu·in/hr/ft ² /°F	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	710	V/mil	ASTM D149

Notes

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

² 60 MPa

³ in air

⁴ in plane

