PolySource

LATICONTHER 62 GR/50
LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 6*

General Information

Product Description
High thermal conductivity product based on Polyamide 6 (PA 6). Graphite. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Graphite Powder Lubricant		
Features	• Lubricated	• PFAS Free	• Thermally Conductive

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.51	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.35 to 0.85	%	
Flow : 0.0787 in	0.25 to 0.50	%	
Water Absorption [3] (Saturation, 73°F)	1.4	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.89E+6	psi	
140°F	667000	psi	
194°F	435000	psi	
248°F	377000	psi	
302°F	290000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	7250	psi	
Break, 140°F	5080	psi	
Break, 194°F	4350	psi	
Break, 248°F	3630	psi	
Break, 302°F	2900	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	0.90	%	
Break, 140°F	2.6	%	
Break, 194°F	3.8	%	
Break, 248°F	3.9	%	
Break, 302°F	4.1	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.6	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	3.3	ft·lb/in²	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)	356	°F	ISO 75-2/A
Vicat Softening Temperature	392	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.7E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- [4]	21	Btu·in/hr/ft²/°F	
-- [5]	140	Btu·in/hr/ft²/°F	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+3	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in		HB	
0.12 in		HB	

Notes

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

[2] 60 MPa

[3] in air

[4] through plane

[5] in plane