

Laticonther 62 CEG/500-V0HF1

Polyamide 6

LATI S.p.A.

Message:

High thermal conductivity product based on Polyamide 6 (PA 6).

Mineral filler / Glass fibres. UL94 V-0 classified, halogens and red phosphorous free.

General Information			
UL YellowCard	E54080-100528367		
Filler / Reinforcement	Glass\Mineral		
Features	Halogen Free		
	Low (to None) Phosphorus Content		
	Thermally Conductive		

Physical	Nominal Value	Unit	Test Method
Density	1.77	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.50 to 0.65	%	
Flow : 2.00 mm	0.30 to 0.45	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	10500	MPa	
60°C	6500	MPa	
90°C	4700	MPa	
120°C	3500	MPa	
150°C	2800	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	85.0	MPa	
Break, 60°C	65.0	MPa	
Break, 90°C	55.0	MPa	
Break, 120°C	45.0	MPa	
Break, 150°C	35.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.5	%	
Break, 60°C	1.8	%	
Break, 90°C	2.0	%	
Break, 120°C	2.5	%	
Break, 150°C	2.5	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	3.5	kJ/m ²	
23°C	3.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m ²	
23°C	15	kJ/m ²	
Notched Izod Impact (23°C)	45	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Continuous Use Temperature ²	135	°C	
Vicat Softening Temperature	210	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.90	W/m/K	ASTM E1952-01
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-1		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Glow Wire Ignition Temperature (1.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	72	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 MPa of cavity pressure		
2.	20,000 hr		

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