

Laticonther 83 CP/80

Polyamide 12

LATI S.p.A.

Message:

High thermal conductivity product based on Polyamide 12 (PA 12), toughened.
Special filler.

General Information			
Filler / Reinforcement	Filler,80% Filler by Weight		
Features	Thermally Conductive		
Physical	Nominal Value	Unit	Test Method
Density	2.96	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.65 to 0.85	%	
Flow : 2.00 mm	0.65 to 0.85	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	40.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.4	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	60	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	120	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/B50
Thermal Conductivity	2.1	W/m/K	ASTM E1952-01
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	750	°C	
2.00 mm	750	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	775	°C	
2.00 mm	775	°C	
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	240 to 260	°C	

Mold Temperature	50.0 to 70.0	°C
Injection Rate	Moderate	
NOTE		
1.	at 60 MPa of cavity pressure	

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