

Laticonther 83 CP/85

Polyamide 12

LATI S.p.A.

Message:

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

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
	Thermally Conductive		
Physical	Nominal Value	Unit	Test Method
Density	3.00	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.70 to 1.0	%	
Flow : 2.00 mm	0.70 to 1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	15.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	90	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	55.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	40.0	°C	ISO 75-2/A
Continuous Use Temperature ²	80.0	°C	
Vicat Softening Temperature	60.0	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	2.0	W/m/K	ASTM E1952-01
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	60.0 to 80.0	°C	
Injection Rate	Moderate		
NOTE			

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|----|------------------------------|
| 1. | at 60 Mpa of cavity pressure |
| 2. | 20,000 hr |

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