

Laticonther 52/11 CP1/600 F3

Polypropylene Homopolymer

LATI S.p.A.

Message:

High thermal conductivity product based on Polypropylene homopolymer (PPH).
Special filler. Potentially suitable for food/medical contact application.

General Information			
Filler / Reinforcement	Filler		
Features	Homopolymer		
	Thermally Conductive		
Uses	Medical/Healthcare Applications		
	Non-specific Food Applications		

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.90 to 1.4	%	
Flow : 2.00 mm	0.90 to 1.4	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	22.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2/5

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Vicat Softening Temperature	110	°C	ISO 306/B50
Thermal Conductivity	5.0	W/m/K	Internal Method

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257

Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	30.0 to 60.0	°C	

Injection Rate	Moderate
NOTE	
1.	60 MPa

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