

Latigray 82-03 CW/96 F3

Polyamide 12

LATI S.p.A.

Message:

Radiopaque compound based on Polyamide 12 (PA12).

Metallic filler. Potentially suitable for food/medical contact application.

General Information			
Filler / Reinforcement	Metal,96% Filler by Weight		
Features	Radiopaque		
Uses	Medical/Healthcare Applications		
	Non-specific Food Applications		

Physical	Nominal Value	Unit	Test Method
Density	10.9	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.50 to 0.90	%	
Flow : 2.00 mm	0.50 to 0.90	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	40.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.80	%	ISO 527-2/5

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Vicat Softening Temperature	165	°C	ISO 306/B50

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms · cm	ASTM D257
Electromagnetic Reflection ²	95	%	

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 100	°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. | 60 MPa |
| 2. | Bekiscan - CP |

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