

Latigray 82-03 CW/95

Polyamide 12

LATI S.p.A.

Message:

Radiopaque compound based on Polyamide 12 (PA 12). Metallic filler.

General Information			
Filler / Reinforcement	Metallic,95% Filler by Weight		
Features	Radiopaque		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	8.58	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)	6700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	40.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.2	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ³ (23°C)	20	kJ/m ²	ISO 179/1eU
Notched Izod Impact ⁴ (23°C)	85	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	155	°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	70	ohms	ASTM D257
Volume Resistivity	7.0E+2	ohms · cm	ASTM D257
Electromagnetic Reflection	95.0	dB	ASTM EST-83
Half Value Thickness			Internal Method
-- ⁵	560.0	µm	
-- ⁶	140.0	µm	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	250 to 270	°C	

Mold Temperature	60.0 to 80.0	°C
Injection Rate	Moderate	
NOTE		
1.	at 60 Mpa of cavity pressure	
2.	80x10x4 mm	
3.	80x10x4 mm	
4.	63.5x12.7x3.2 mm	
5.	120 kV	
6.	80 kV	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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