

LATIGRAY 82-03 CW/96 F3

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 12*

General Information

Product Description

Radiopaque compound based on Polyamide 12 (PA 12). Special filler. Potentially suitable for medical contact application. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Filler		
Features	• PFAS Free	• Radiopaque	• X-Ray Shielding
Uses	• Medical/Healthcare Applications		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	11.0	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.60 to 0.90	%	
Flow : 0.0787 in	0.60 to 0.90	%	
Water Absorption ³ (Saturation, 73°F)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	377000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	5800	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	0.70	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	4.8	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	311	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	221	°F	ISO 75-2/A
Vicat Softening Temperature	329	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	4.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	4.7E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ⁴	5.6	Btu·in/hr/ft ² /°F	
-- ⁵	5.6	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	80	ohms	ASTM D257
Volume Resistivity	8.0E+2	ohms·cm	ASTM D257
Electromagnetic Reflection - Bekiscan - CP	95	%	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

⁴ through plane

⁵ in plane

