

LATIGRAY 53/3-01 CX/45 F3

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polypropylene Homopolymer*
General Information
Product Description

Radiopaque compound based on Polypropylene homopolymer (PPH). Special filler. Potentially suitable for medical contact application. PFAS-free product.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.34	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	1.7 to 2.0	%	
Flow : 0.0787 in	1.2 to 1.5	%	
Water Absorption ³ (Saturation, 73°F)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	116000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	2180	psi	ISO 527-2/5
Tensile Stress (Break, 73°F)	No Break		ISO 527-2/5
Tensile Strain (Yield, 73°F)	9.0	%	ISO 527-2/5
Tensile Strain (Break, 73°F)	> 50	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	40	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	230	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	158	°F	ISO 75-2/A
Vicat Softening Temperature	212	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	5.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	5.0E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ⁴	2.1	Btu·in/hr/ft ² /°F	
-- ⁵	2.1	Btu·in/hr/ft ² /°F	

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

² 60 MPa

³ in air

⁴ through plane

⁵ in plane
