LATIGRAY 88/10-01 CX/30

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyetheretherketone*

General Information

Product Description

Radiopaque compound based on Polyetheretherketone (PEEK). Special filler. Intrinsically flame retardant. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Filler		
Features	• Flame Retardant • High Heat Resistance	• PFAS Free • Radiopaque	• X-Ray Shielding
Uses	• High Temperature Applications		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.63	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.90 to 1.3	%	
Flow : 0.0787 in	0.80 to 1.2	%	
Water Absorption [3] (Saturation, 73°F)	0.080	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-1/1
73°F	827000	psi	
140°F	769000	psi	
194°F	754000	psi	
248°F	740000	psi	
302°F	624000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	12300	psi	
Yield, 140°F	10900	psi	
Yield, 194°F	9430	psi	
Yield, 248°F	7980	psi	
Yield, 302°F	5800	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	11600	psi	
Break, 140°F	10900	psi	
Break, 194°F	8700	psi	
Break, 248°F	6530	psi	
Break, 302°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	4.0	%	
Yield, 140°F	3.4	%	
Yield, 194°F	3.0	%	
Yield, 248°F	2.4	%	
Yield, 302°F	2.1	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	6.0	%	
Break, 140°F	8.0	%	
Break, 194°F	10	%	

Break, 248°F	20	%	
Break, 302°F	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	2.1	ft·lb/in²	
73°F	1.4	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	24	ft·lb/in²	
73°F	26	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	518	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	347	°F	ISO 75-2/A
Vicat Softening Temperature	608	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.2E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- [4]	2.1	Btu·in/hr/ft²/°F	
-- [5]	2.8	Btu·in/hr/ft²/°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257
Comparative Tracking Index [6] (Solution A)	175	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.030 in	V-0		
0.06 in	V-0		
0.12 in	V-0		
Glow Wire Flammability Index (0.08 in)	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.08 in)	1520	°F	IEC 60695-2-13

Notes

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

[2] 60 MPa

[3] in air

[4] through plane

[5] in plane

[6] without surfactant