LATER 4 G/30-V0

LATI INDUSTRIA TERMOPLASTICI SPA - *Polybutylene Terephthalate*

General Information

Product Description

Compound based on Polybutylene Terephthalate (PBT). Glass fibres. Flame retardant, UL94 V-0 class, with brominated flame retardants, free of PBB/PBDE.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant		
Features	• Brominated	• Flame Retardant	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.61	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.70 to 1.0	%	
Flow : 0.0787 in	0.20 to 0.45	%	
Water Absorption [3] (Saturation, 73°F)	0.14	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-1/1
73°F	1.38E+6	psi	
140°F	928000	psi	
194°F	667000	psi	
248°F	508000	psi	
302°F	406000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	18900	psi	
Break, 140°F	13100	psi	
Break, 194°F	10200	psi	
Break, 248°F	7980	psi	
Break, 302°F	6530	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.2	%	
Break, 140°F	4.0	%	
Break, 194°F	5.0	%	
Break, 248°F	5.5	%	
Break, 302°F	5.7	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	4.8	ft·lb/in²	
73°F	4.8	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	17	ft·lb/in²	
73°F	26	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	428	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	401	°F	ISO 75-2/A

Vicat Softening Temperature	401	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.6E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- [4]	1.4	Btu·in/hr/ft²/°F	
-- [5]	1.4	Btu·in/hr/ft²/°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	560	V/mil	ASTM D149
Comparative Tracking Index [6] (Solution A)	250	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			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°F	
Oxygen Index	31	%	ASTM D2863

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