

Later 4 G/30-V0CT2

Polybutylene Terephthalate

LATI S.p.A.

Message:

Polybutylene Terephthalate (PBT) based compound.
Glass fibres. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE free. Low antimony trioxide content.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Brominated		
	Flame Retardant		

Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.90 to 1.2	%	
Flow : 2.00 mm	0.30 to 0.50	%	
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	7800	MPa	
60°C	5400	MPa	
90°C	3400	MPa	
120°C	2500	MPa	
150°C	1800	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	80.0	MPa	
Break, 60°C	50.0	MPa	
Break, 90°C	30.0	MPa	
Break, 120°C	20.0	MPa	
Break, 150°C	15.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	2.3	%	
Break, 60°C	2.6	%	
Break, 90°C	2.6	%	
Break, 120°C	2.7	%	
Break, 150°C	2.8	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	6.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	35	kJ/m ²	
23°C	30	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	°C	ISO 75-2/A
Continuous Use Temperature ²	135	°C	
Vicat Softening Temperature	200	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	750	°C	
2.00 mm	750	°C	
Oxygen Index	31	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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