

Later 4-V0

Polybutylene Terephthalate

LATI S.p.A.

Message:

Compound based on Polybutylene Terephthalate (PBT).
UL94 V-0 classified, with halogens, PBB/PBDE and antimonium trioxide free. Product UL certified.

General Information			
UL YellowCard	E54080-244039		
Additive	Flame Retardant		
Features	Antimony Free		
	Flame Retardant		
	Halogenated		

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.5 to 1.8	%	
Flow : 2.00 mm	1.5 to 1.8	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	2800	MPa	
60°C	1600	MPa	
90°C	1000	MPa	
120°C	700	MPa	
150°C	450	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	50.0	MPa	
Yield, 60°C	40.0	MPa	
Yield, 90°C	30.0	MPa	
Break, 23°C	45.0	MPa	
Break, 60°C	35.0	MPa	
Break, 90°C	20.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	3.0	%	
Yield, 60°C	4.5	%	
Yield, 90°C	9.0	%	
Break, 23°C	20	%	
Break, 60°C	55	%	
Break, 90°C	90	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	50	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	155	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Continuous Use Temperature ²	130	°C	
Vicat Softening Temperature	140	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index ³ (Solution A)	250	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	700	°C	
2.00 mm	700	°C	
Oxygen Index	30	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	230 to 240	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 MPa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

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