

Later 4E61 GCER/450-V0

Polybutylene Terephthalate

LATI S.p.A.

Message:

Polybutylene Terephthalate (PBT) based compound.

Toughened. Glass fibres / Mineral filler. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE free. Very good electrical properties.

General Information			
Filler / Reinforcement	Glass\Mineral		
Additive	Flame Retardant		
Features	Brominated		
	Flame Retardant		
	Good Electrical Properties		

Physical	Nominal Value	Unit	Test Method
Density	1.78	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.80 to 1.1	%	
Flow : 2.00 mm	0.40 to 0.65	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	11000	MPa	
60°C	7800	MPa	
90°C	5000	MPa	
120°C	3500	MPa	
150°C	2700	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	95.0	MPa	
Break, 60°C	65.0	MPa	
Break, 90°C	50.0	MPa	
Break, 120°C	40.0	MPa	
Break, 150°C	30.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.7	%	
Break, 60°C	2.0	%	
Break, 90°C	2.4	%	
Break, 120°C	2.8	%	
Break, 150°C	3.0	%	

Impact	Nominal Value	Unit	Test Method
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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
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Continuous Use Temperature ²	135	°C	
Vicat Softening Temperature	205	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	475	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	
Oxygen Index	30	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	15	%	
Processing (Melt) Temp	240 to 255	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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