Later 4-V0HF1

Polybutylene Terephthalate

LATI S.p.A.

Message:

Polybutylene Terephtalate (PBT) based compound.
UL94 V-0 classified, halogens-based flame retardants and red phosphorous free.

General Information	
Additive	Flame Retardant
Features	Flame Retardant
	Halogenated
	Low (to None) Phosphorus Content

Physical	Nominal Value	Unit	Test Method
Density	1.33	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	%	
Water Absorption (23°C, 24 hr)	0.080	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 23°C	35.0	MPa	
Break, 23°C	35.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	3.0	%	
Break, 23°C	5.0	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	2.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Continuous Use Temperature [2]	120	°C	
Vicat Softening Temperature	175	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.1E-4	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (Solution A)	600	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	775	°C	
2.00 mm	775	°C	

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.	60 MPa
2.	20,000 hr

Recommended distributors for this material

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