

## LATI Later 4-V0 PBT, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

### Material Notes:

Polybutylene Terephthalate (PBT) based compound. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE and antimony trioxide free. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America. Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LATI-Later-4-V0-PBT-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LATI-Later-4-V0-PBT-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	
Linear Mold Shrinkage, Flow	0.015 - 0.018 cm/cm	0.015 - 0.018 in/in	
Linear Mold Shrinkage, Transverse	0.015 - 0.018 cm/cm	0.015 - 0.018 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	35.0 MPa	5080 psi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	45.0 MPa	6530 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	20 %	20 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	55 %	55 %	
	@Temperature 60.0 °C	@Temperature 140 °F	
	90 %	90 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
	>= 100 %	>= 100 %	
	@Temperature 120 °C	@Temperature 248 °F	
	>= 100 %	>= 100 %	
	@Temperature 150 °C	@Temperature 302 °F	
Elongation at Yield	3.0 %	3.0 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 60.0 °C	@Temperature 140 °F	
	9.0 %	9.0 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
Tensile Modulus	0.450 GPa	65.3 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	0.700 GPa	102 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	1.00 GPa	145 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	1.60 GPa	232 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	2.80 GPa	406 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	
Vicat Softening Point	185 °C	365 °F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	30 %	30 %	

Thermal Properties	Metric	English	Comments
Glow Wire Test	@Thickness 1.00 mm	@Thickness 0.0394 in	GWIT
	700 °C	1290 °F	GWIT
	@Thickness 2.00 mm	@Thickness 0.0787 in	GWFI/GWT
	960 °C	1760 °F	GWFI/GWT
	@Thickness 1.00 mm	@Thickness 0.0394 in	GWFI/GWT
	960 °C	1760 °F	GWFI/GWT
	@Thickness 2.00 mm	@Thickness 0.0787 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 240 °C	446 - 464 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	110 - 130 °C	230 - 266 °F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

## Contact Songhan Plastic Technology Co.,Ltd.

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