

**LATI Later 4E61 GCER/450-V0 PBT, Glass/Mineral Filled, Flame Retardant**

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass + Mineral Filled

**Material Notes:**

Polybutylene Terephthalate (PBT) based compound. Toughened. Glass fibers / Mineral filler. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE free. Very good electrical properties. 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-4E61-GCER450-V0-PBT-GlassMineral-Filled-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LATI-Later-4E61-GCER450-V0-PBT-GlassMineral-Filled-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in <sup>3</sup>	
Linear Mold Shrinkage, Flow	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	
	@Temperature 150 °C	@Temperature 302 °F	
	40.0 MPa	5800 psi	
	@Temperature 120 °C	@Temperature 248 °F	
	50.0 MPa	7250 psi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	65.0 MPa	9430 psi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	95.0 MPa	13800 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	1.7 %	1.7 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.0 %	2.0 %	
	@Temperature 60.0 °C	@Temperature 140 °F	
	2.4 %	2.4 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
	2.8 %	2.8 %	
	@Temperature 120 °C	@Temperature 248 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	2.70 GPa	392 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	3.50 GPa	508 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	5.00 GPa	725 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	7.80 GPa	1130 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	11.0 GPa	1600 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	135 °C	275 °F	
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	
Vicat Softening Point	205 °C	401 °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 %	
Glow Wire Test	960 °C	1760 °F	GWFI/GWT
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Thermal Properties	Metric	English	Comments
	@Thickness 2.00 mm	@Thickness 0.0787 in	GWFI/GWI

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	475 V	475 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 255 °C	464 - 491 °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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