

LATI Later 4 G/30-V0HF1 PBT, 30% Glass Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Polybutylene Terephthalate (PBT) based compound. Glass fibers. UL94 V-0 classified, halogens-based flame retardants and red phosphorous 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-G30-V0HF1-PBT-30-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0095 - 0.0125 cm/cm	0.0095 - 0.0125 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	50.0 MPa	7250 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	65.0 MPa	9430 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	90.0 MPa	13100 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	140 MPa	20300 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.8 %	1.8 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.2 %	2.2 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.8 %	2.8 %	

Mechanical Properties	Metric	English	Comments
	3.0 %	3.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	3.0 %	3.0 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.10 GPa	305 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	3.00 GPa	435 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	4.10 GPa	595 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	6.50 GPa	943 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	9.90 GPa	1440 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 Â°C	275 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	
Vicat Softening Point	200 Â°C	392 Â°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	
Oxygen Index			

Thermal Properties	^{30 %} Metric	^{30 %} English	Comments
Glow Wire Test	775 Â°C	1430 Â°F	GWIT
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 Â°C	1760 Â°F	GWFI/GWT
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	960 Â°C	1760 Â°F	GWFI/GWT
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 Â°C	446 - 482 Â°F	
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
Drying Temperature	110 - 130 Â°C	230 - 266 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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