

LATI Later 4-V0HF1 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, 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-V0HF1-PBT-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	
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	12.0 MPa	1740 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	25.0 MPa	3630 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	35.0 MPa	5080 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	5.0 %	5.0 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	35 %	35 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	80 %	80 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	>= 100 %	>= 100 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	>= 100 %	>= 100 %	

Mechanical Properties	Metric	English	Comments
Elongation at Yield	3.0 %	3.0 %	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	4.5 %	4.5 %	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	10 %	10 %	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
Tensile Modulus	0.350 GPa	50.8 ksi	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	0.600 GPa	87.0 ksi	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	0.800 GPa	116 ksi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	1.30 GPa	189 ksi	
@Temperature 60.0 Å°C	@Temperature 140 Å°F		
	2.30 GPa	334 ksi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	2.50 J/cmÅ²	11.9 ft-lb/inÅ²	
Charpy Impact, Notched	0.200 J/cmÅ²	0.952 ft-lb/inÅ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Å°C	248 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	160 Å°C	320 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Å°C	140 Å°F	
Vicat Softening Point	175 Å°C	347 Å°F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Glow Wire Test	775 Â°C	1430 Â°F	GWIT
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	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 - 240 Â°C	446 - 464 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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