

LATI Lastilac AR-V0E ABS, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Acrylonitrile-Butadiene-Styrene copolymer (ABS) based compound. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE free. Very high dimensional stability. Very good surface appearance. 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-Lastilac-AR-V0E-ABS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0045 - 0.0065 cm/cm	0.0045 - 0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	8.00 MPa	1160 psi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	15.0 MPa	2180 psi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	35.0 MPa	5080 psi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Elongation at Break	8.0 %	8.0 %	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	50 %	50 %	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	95 %	95 %	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
Elongation at Yield	2.0 %	2.0 %	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	2.3 %		

Mechanical Properties	Metric	English	Comments
	@Temperature 60.0 °C	@Temperature 140 °F	
	2.3 %	2.3 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
Tensile Modulus	1.50 GPa	218 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	1.90 GPa	276 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	2.30 GPa	334 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	70.0 °C	158 °F	
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	
Vicat Softening Point	95.0 °C	203 °F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	28 %	28 %	
Glow Wire Test	725 Â°C	1340 Â°F	GWIT
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	850 Â°C	1560 Â°F	GWIT
	@Thickness 1.00 mm	@Thickness 0.0394 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	350 V	350 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 210 Â°C	356 - 410 Â°F	
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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