

LATI Kelon® B FR H CETG/250-V0 PA 6, Glass/Mineral Reinforced, Flame Retardant, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Polyamide 6 (PA6) based compound. Heat stabilized. Glass fibers / Mineral filler. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE 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-Kelon-B-FR-H-CETG250-V0-PA-6-GlassMineral-Reinforced-Flame-Retardant-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	50.0 MPa	7250 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	60.0 MPa	8700 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	75.0 MPa	10900 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	90.0 MPa	13100 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	2.0 %	2.0 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.5 %	2.5 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	10 %	10 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	15 %	15 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.60 GPa	377 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	3.50 GPa	508 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	4.50 GPa	653 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	7.20 GPa	1040 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	10.0 GPa	1450 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	115 Â°C	239 Â°F	
Deflection Temperature at 0.46 MPa	210 Â°C	410 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C	374 Â°F	
Vicat Softening Point	190 Â°C @Load 5.00 kg	374 Â°F @Load 11.0 lb	
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
Oxygen Index	32 %	32 %	
Glow Wire Test	800 Â°C @Thickness 2.00 mm	1470 Â°F @Thickness 0.0787 in	GWIT
	825 Â°C @Thickness 1.00 mm	1520 Â°F @Thickness 0.0394 in	GWIT
	960 Â°C @Thickness 1.00 mm	1760 Â°F @Thickness 0.0394 in	GWFI/GWT
	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	
Mold Temperature	70.0 - 100 Â°C	158 - 212 Â°F	
Drying Temperature	90.0 - 100 Â°C @Time 10800 sec	194 - 212 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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