

LATI Kelon® B FR H2 CEG/500-V0CT3 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 and antimony trioxide free. Low thermal expansion coefficient. 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-H2-CEG500-V0CT3-PA-6-GlassMineral-Reinforced-Flame-Retardant-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	
Linear Mold Shrinkage, Flow	0.0025 - 0.0040 cm/cm	0.0025 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0065 cm/cm	0.0050 - 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	
	45.0 MPa	6530 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	55.0 MPa	7980 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	65.0 MPa	9430 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	85.0 MPa	12300 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.5 %	1.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.8 %	1.8 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.5 %	2.5 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.5 %	2.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.80 GPa	406 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	3.50 GPa	508 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	4.70 GPa	682 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	6.50 GPa	943 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	10.5 GPa	1520 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
Charpy Impact, Notched	0.350 J/cmÂ²	1.67 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.350 J/cmÂ²	1.67 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.900 W/m-K	6.25 BTU-in/hr-ftÂ²- Â°F	Longitudinal

Maximum Service Temperature, Air Thermal Properties	135 Â°C Metric	275 Â°F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	
Vicat Softening Point	210 Â°C @Load 5.00 kg	410 Â°F @Load 11.0 lb	
Flammability, UL94	V-1 @Thickness 0.750 mm	V-1 @Thickness 0.0295 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	42 %	42 %	
Glow Wire Test	775 Â°C @Thickness 1.00 mm	1430 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	600 V	600 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 Â°C	482 - 518 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 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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