

LATI Kelon® B FR H CET/05-V2HF PA 6, Mineral Reinforced, Flame Retardant, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Polyamide 6 (PA6) based compound. Heat stabilized. Mineral filler. UL94 V-2 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-Kelon-B-FR-H-CET05-V2HF-PA-6-Mineral-Reinforced-Flame-Retardant-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Elongation at Break	5.0 %	5.0 %	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	>= 100 %	>= 100 %	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	>= 100 %	>= 100 %	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	>= 100 %	>= 100 %	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	>= 100 %	>= 100 %	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
Elongation at Yield	3.2 %	3.2 %	
Tensile Modulus	0.400 GPa	58.0 ksi	
	@Temperature 150 Å°C	@Temperature 302 Å°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	1.00 GPa	145 ksi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	1.70 GPa	247 ksi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	4.00 GPa	580 ksi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	NB	NB	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	NB	NB	
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
Charpy Impact, Notched	0.350 J/cmÅ²	1.67 ft-lb/inÅ²	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	0.350 J/cmÅ²	1.67 ft-lb/inÅ²	
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	65.0 Å°C	149 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Å°C	284 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Å°C	149 Å°F	
Vicat Softening Point	160 Å°C	320 Å°F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	26 %	26 %	
Glow Wire Test	960 Å°C	1760 Å°F	GWFI/GWT

Thermal Properties	@Thickness 1.00 mm Metric	@Thickness 0.0394 in English	Comments
	960 Å°C	1760 Å°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 Å°C	446 - 482 Å°F	
Mold Temperature	70.0 - 100 Å°C	158 - 212 Å°F	
Drying Temperature	90.0 - 100 Å°C	194 - 212 Å°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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