

LATI Kelon® B FR H CET/30-V0 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-0 classified, with brominated flame retardants, PBB/PBDE free. Low thermal expansion coefficient. Very high dimensional stability. High stiffness. 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-CET30-V0-PA-6-Mineral-Reinforced-Flame-Retardant-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	
Linear Mold Shrinkage, Flow	0.0030 - 0.0055 cm/cm	0.0030 - 0.0055 in/in	
Linear Mold Shrinkage, Transverse	0.0035 - 0.0060 cm/cm	0.0035 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	25.0 MPa	3630 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	30.0 MPa	4350 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	50.0 MPa	7250 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	65.0 MPa	9430 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	
	2.3 %	2.3 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	5.1 %	5.1 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	10 %	10 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	20 %	20 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.30 GPa	334 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	2.60 GPa	377 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	3.40 GPa	493 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	6.50 GPa	943 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	10.0 GPa	1450 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	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	115 Â°C	239 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)			
Vicat Softening Point	195 Â°C	383 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@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	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	450 V	450 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	194 - 212 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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