

LATI Kelon® B FR H2 CE/25-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-H2-CE25-V2HF-PA-6-Mineral-Reinforced-Flame-Retardant-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	
Linear Mold Shrinkage, Flow	0.0055 - 0.0075 cm/cm	0.0055 - 0.0075 in/in	
Linear Mold Shrinkage, Transverse	0.0065 - 0.0085 cm/cm	0.0065 - 0.0085 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	20.0 MPa	2900 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	30.0 MPa	4350 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	45.0 MPa	6530 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	2.5 %	2.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.5 %	3.5 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	6.5 %	6.5 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	12 %	12 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	20 %	20 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	0.500 GPa	72.5 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	0.750 GPa	109 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	1.30 GPa	189 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.20 GPa	319 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	5.20 GPa	754 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	80.0 Â°C	176 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	200 Â°C	392 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 Â°F	
Vicat Softening Point	205 Â°C	401 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties	V-2 Metric	V-2 English	Comments
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	27 %	27 %	
Glow Wire Test	960 Â°C @Thickness 1.00 mm	1760 Â°F @Thickness 0.0394 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	550 V	550 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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