

LATI Kelon® A FR H2 CETG/300-V0 PA 66, Glass/Mineral Reinforced, Flame Retardant, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant , Nylon 66, Glass/Mineral Filled

Material Notes:

Polyamide 66 (PA66) 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. Very high dimensional stability. 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-A-FR-H2-CETG300-V0-PA-66-GlassMineral-Reinforced-Flame-Retardant-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	
Linear Mold Shrinkage, Transverse	0.0055 - 0.0075 cm/cm	0.0055 - 0.0075 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	
	@Temperature 150 °C	@Temperature 302 °F	
	35.0 MPa	5080 psi	
	@Temperature 120 °C	@Temperature 248 °F	
	45.0 MPa	6530 psi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	65.0 MPa	9430 psi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	80.0 MPa	11600 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	1.6 %	1.6 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.7 %	2.7 %	
	@Temperature 60.0 °C	@Temperature 140 °F	
	6.5 %	6.5 %	
	@Temperature 90.0 °C	@Temperature 194 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 °C	@Temperature 248 °F	
	20 %	20 %	
	@Temperature 150 °C	@Temperature 302 °F	
Elongation at Yield	5.0 %	5.0 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
	7.0 %	7.0 %	
	@Temperature 120 °C	@Temperature 248 °F	
	10 %	10 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	2.80 GPa	406 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	3.30 GPa	479 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	4.80 GPa	696 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	8.00 GPa	1160 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	10.2 GPa	1480 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.00 J/cm²	9.52 ft-lb/in²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.00 J/cm²	9.52 ft-lb/in²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.200 J/cm²	0.952 ft-lb/in²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.200 J/cm²	0.952 ft-lb/in²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	115 °C	239 °F	

Thermal Properties Deflection Temperature at 0.46 MPa (100 psi)	240 °C Metric	464 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	
Vicat Softening Point	235 °C @Load 5.00 kg	455 °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	36 %	36 %	
Glow Wire Test	775 °C @Thickness 2.00 mm	1430 °F @Thickness 0.0787 in	GWIT
	850 °C @Thickness 1.00 mm	1560 °F @Thickness 0.0394 in	GWIT
	960 °C @Thickness 1.00 mm	1760 °F @Thickness 0.0394 in	GWFI/GWT
	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	70.0 - 100 °C	158 - 212 °F	
Drying Temperature	90.0 - 100 °C @Time 10800 sec	194 - 212 °F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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