

KELON B FR H2 CEG/500-V0CT3

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 6*
General Information
Product Description

Compound based on Polyamide 6 (PA 6). Improved thermal stabilisation. Mineral filler / Glass fibres. Flame retardant, UL94 V-0 class, free of halogens-based flame retardants and red phosphorous. Low thermal expansion coefficient. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber\Mineral		
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	• PFAS Free
	• Good Thermal Stability	• Low (to None) Phosphorus Content	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.74	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.60 to 0.90	%	
Flow : 0.0787 in	0.15 to 0.70	%	
Water Absorption ³ (Saturation, 73°F)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.60E+6	psi	
140°F	812000	psi	
194°F	479000	psi	
248°F	377000	psi	
302°F	319000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	10900	psi	
Break, 140°F	7250	psi	
Break, 194°F	5080	psi	
Break, 248°F	3630	psi	
Break, 302°F	2900	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.3	%	
Break, 140°F	2.2	%	
Break, 194°F	3.2	%	
Break, 248°F	3.3	%	
Break, 302°F	3.4	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	0.71	ft·lb/in ²	
73°F	1.7	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	4.8	ft·lb/in ²	
73°F	7.1	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method



Deflection Temperature Under Load (66 psi, Unannealed)	410 °F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	374 °F	ISO 75-2/A
Vicat Softening Temperature	392 °F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.2E-5 in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.9E-5 in/in/°F	ISO 11359-2
Thermal Conductivity		ASTM E1461
-- 4	4.9 Btu·in/hr/ft ² /°F	
-- 5	6.2 Btu·in/hr/ft ² /°F	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	510	V/mil	ASTM D149
Comparative Tracking Index ⁶ (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-1		
0.06 in	V-0		
0.12 in	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in	1430	°F	
0.08 in	1430	°F	
Oxygen Index	38	%	ASTM D2863

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

⁴ through plane

⁵ in plane

⁶ without surfactant

