

KELON B FR H CET/30-V0

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

Compound based on Polyamide 6 (PA 6). Mineral filler. Flame retardant, UL94 V-0 class, with brominated flame retardants, free of PBB/PBDE. Low thermal expansion coefficient. Very high dimensional stability. High stiffness. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Mineral		
Additive	• Flame Retardant		
Features	• Brominated	• Flame Retardant	• PFAS Free

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.53	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.65 to 0.80	%	
Flow : 0.0787 in	0.50 to 0.70	%	
Water Absorption ³ (Saturation, 73°F)	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	928000	psi	
140°F	580000	psi	
194°F	290000	psi	
248°F	203000	psi	
302°F	133000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	7980	psi	
Break, 140°F	5080	psi	
Break, 194°F	3630	psi	
Break, 248°F	2900	psi	
Break, 302°F	2180	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.6	%	
Break, 140°F	5.7	%	
Break, 194°F	16	%	
Break, 248°F	27	%	
Break, 302°F	44	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	1.1	ft·lb/in ²	
73°F	1.3	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	8.6	ft·lb/in ²	
73°F	9.5	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	383	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	266	°F	ISO 75-2/A



Vicat Softening Temperature	374 °F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.8E-5 in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.8E-5 in/in/°F	ISO 11359-2
Thermal Conductivity		ASTM E1461
-- 4	1.4 Btu·in/hr/ft ² /°F	
-- 5	2.1 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)	525 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.030 in	V-2	
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	29 %	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

