

KELON B FR H2 CE/25-V2HF

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

Compound based on Polyamide 6 (PA 6). Improved thermal stabilisation. Mineral filler. Flame retardant, UL94 V-2 class, free of halogens-based flame retardants and red phosphorous. 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	• 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)	1.33	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.75 to 1.0	%	
Flow : 0.0787 in	0.70 to 1.0	%	
Water Absorption ³ (Saturation, 73°F)	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	725000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	9430	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	2.7	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.4	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	14	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	392	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	266	°F	ISO 75-2/A
Vicat Softening Temperature	392	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	4.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	5.6E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ⁴	1.4	Btu-in/hr/ft ² /°F	
-- ⁵	1.4	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-2		
0.06 in	V-2		
0.12 in	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	



0.06 in	1760 °F	
Oxygen Index	25 %	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

