KELON B FR H CETG/250-V0

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 6*

General Information

Product Description

Compound based on Polyamide 6 (PA 6). Mineral filler / Glass fibres. Flame retardant, UL94 V-0 class, with brominated flame retardants, free of PBB/PBDE. PFAS-free product.

General

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.58	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.70 to 0.90	%	
Flow : 0.0787 in	0.50 to 0.70	%	
Water Absorption [3] (Saturation, 73°F)	1.7	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	972000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	9430	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	2.3	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	1.9	ft·lb/in²	
73°F	2.4	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	10	ft·lb/in²	
73°F	12	ft·lb/in²	
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)	365	°F	ISO 75-2/A
Vicat Softening Temperature	374	°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)	4.2E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- [4]	1.4	Btu·in/hr/ft²/°F	
-- [5]	1.4	Btu·in/hr/ft²/°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength			ASTM D149
73°F, 0.0787 in, Method A (Short-Time)	530	V/mil	
73°F, 0.0787 in, Method A (Short-Time) [6]	330	V/mil	
Comparative Tracking Index [7] (Solution A)	400	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94

0.030 in	V-0	
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	1470 °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] conditioned

[7] without surfactant