

Kelon® B FR H2 CEG/500-V0CT3

Polyamide 6

LATI S.p.A.

Message:

Heat stabilised. Mineral filler / Glass fibres. UL94 V-0 classified, halogens and red phosphorus free.

Product UL certified.

Low thermal expansion coefficient.

General Information			
UL YellowCard	E54080-243962		
Filler / Reinforcement	Glass\Mineral		
Additive	Heat Stabilizer		
Features	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.50 to 0.65	%	
Flow	0.25 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23°C	10500	MPa	
60°C	6500	MPa	
90°C	4700	MPa	
120°C	3500	MPa	
150°C	2800	MPa	
Tensile Stress			ISO 527-2
Break, 23°C	85.0	MPa	
Break, 60°C	65.0	MPa	
Break, 90°C	55.0	MPa	
Break, 120°C	45.0	MPa	
Break, 150°C	35.0	MPa	
Tensile Strain			ISO 527-2
Break, 23°C	1.5	%	
Break, 60°C	1.8	%	
Break, 90°C	2.0	%	
Break, 120°C	2.5	%	

Break, 150°C	2.5	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.5	kJ/m ²	
23°C	3.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m ²	
23°C	15	kJ/m ²	
Notched Izod Impact (23°C)	40	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Continuous Use Temperature	135	°C	
Vicat Softening Temperature	210	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.90	W/m/K	ASTM E1952-01
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-1		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Glow Wire Ignition Temperature (1.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	42	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		

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