

Kelon® B FR H CET/30-V0

Polyamide 6

LATI S.p.A.

Message:

Compound based on Polyamide 6 (PA 6).

Heat stabilised. Mineral filler. UL94 V-0 classified, with halogens, PBB/PBDE free. Product UL certified.

Low thermal expansion coefficient. Very high dimensional stability. High stiffness.

General Information			
UL YellowCard	E54080-243960		
Filler / Reinforcement	Mineral,30% Filler by Weight		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Good Dimensional Stability		
	Halogenated		
	Heat Stabilized		
	High Stiffness		
Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.35 to 0.60	%	
Flow : 2.00 mm	0.30 to 0.55	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	10000	MPa	
60°C	6500	MPa	
90°C	3400	MPa	
120°C	2600	MPa	
150°C	2300	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	65.0	MPa	
Break, 60°C	50.0	MPa	
Break, 90°C	30.0	MPa	
Break, 120°C	25.0	MPa	
Break, 150°C	20.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.5	%	
Break, 60°C	2.3	%	

Break, 90°C	5.0	%	
Break, 120°C	10	%	
Break, 150°C	20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.0	kJ/m ²	
23°C	2.0	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, 3.20 mm)	35	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	205	°C	ISO 75-2/B
1.8 MPa, Unannealed	155	°C	ISO 75-2/A
Continuous Use Temperature ²	115	°C	
Vicat Softening Temperature	195	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index ³ (Solution A)	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-2		
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	
Oxygen Index	28	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	70.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

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