

Kelon® B FR H CET/05-V2HF

Polyamide 6

LATI S.p.A.

Message:

Polyamide 6 (PA6) based compound.

Heat stabilised. Mineral filler. UL94 V-2 classified, halogens-based flame retardants and red phosphorous free.

General Information			
Filler / Reinforcement	Mineral		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Halogenated		
	Heat Stabilized		
	Low (to None) Phosphorus Content		

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.80 to 1.0	%	
Flow : 2.00 mm	0.80 to 1.0	%	
Water Absorption (23°C, 24 hr)	0.35	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	4000	MPa	
60°C	1700	MPa	
90°C	1000	MPa	
120°C	600	MPa	
150°C	400	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	75.0	MPa	
Break, 23°C	70.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	3.2	%	
Break, 23°C	5.0	%	
Break, 60°C	> 100	%	
Break, 90°C	> 100	%	
Break, 120°C	> 100	%	
Break, 150°C	> 100	%	

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	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Continuous Use Temperature ²	65.0	°C	
Vicat Softening Temperature	160	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-2		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Oxygen Index	26	%	ASTM D2863
Additional Information	Nominal Value		
Dimensional Stability	74.0		
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	15	%	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	70.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

