

THERMOLAST® K TC4FLN (Series: FR/AP)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The FR/AP Series is your material solution for applications requiring high flame retardance. The compounds are halogen free and available in natural and black colors.

Typical applications

Cable clips

Cable holders

Electric and electronic components

Seals for switch boxes

Material advantages

Easy coloring (compounds in natural colors)

Excellent mechanical properties

Halogen free (reduction of toxic fire gases)

Self-extinguishing, no dripping of flaming particles

UL 94-V0 (3mm) listed

General Information			
UL YellowCard	E353857-101316584		
Features	Flame Retardant		
	Good Colorability		
	Halogen Free		
	Self Extinguishing		
Uses	Electrical Parts		
	Seals		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	39		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	1.70	MPa	ISO 37
Tensile Elongation ² (Break)	520	%	ISO 37
Tear Strength ³	12	kN/m	ISO 34-1
Compression Set ⁴			ISO 815
23°C, 72 hr	10	%	
70°C, 24 hr	54	%	
100°C, 24 hr	94	%	
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	180	°C
Middle Temperature	200	°C
Front Temperature	220	°C
Mold Temperature	25.0 to 40.0	°C
Injection Pressure	20.0 to 100	MPa
Back Pressure	2.00 to 10.0	MPa

NOTE

1. Type S2, 200 mm/min
2. Type S2, 200 mm/min
3. Method Bb, Angle (Nicked)
4. Method A

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