

THERMOLAST® K TF4CGT (Series: FC)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

- The FC Series is your natural-colored and translucent material solution for applications with food contact. The series is characterized, among other things, by its excellent adhesion to PP.
- Typical applications
 - Function and design elements
 - Grip applications
 - Household articles
 - Packaging (for food and careproducts)
 - Razors
 - Seals
 - Toothbrushes
 - Toys
 - Material advantages
 - Adhesion to PP
 - Applications with food contact
 - Code of Federal Regulations, Title 21 (CFR 21) "FDA"
 - Easy coloring (compounds in natural colors)
 - EN71/3
 - Excellent mechanical properties
 - Excellent processing behavior
 - Halogen-free
 - In natural or translucent available
 - Pleasant surface feel (Soft touch)
 - Recyclable
 - Regulation (EU) No. 10/2011

General Information	
Features	Food Contact Acceptable
	Good Adhesion
	Good Processability
	Halogen Free
	Recyclable Material
	Soft
Uses	Food Packaging
	Household Goods
	Non-specific Food Applications
	Packaging
	Seals
	Toothbrush Handles
Agency Ratings	Toys
	EN 71-3
	EU 10/2011
FDA Food Contact, Unspecified Rating	

Appearance	Translucent
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	38		ISO 7619

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	7.00	MPa	ISO 37
Tensile Elongation ² (Break)	850	%	ISO 37
Tear Strength ³	10	kN/m	ISO 34-1
Compression Set ⁴			ISO 815
23°C, 72 hr	18	%	
70°C, 24 hr	30	%	
100°C, 24 hr	60	%	

Extrusion	Nominal Value	Unit
Drying Temperature	60.0 to 80.0	°C
Drying Time	2.0 to 4.0	hr
Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	180	°C
Cylinder Zone 3 Temp.	200	°C
Die Temperature	200 to 230	°C

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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