

THERMOLAST® K TF4CGN (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 Colorability Good Processability Halogen Free Recyclable Material Soft
Uses	Food Packaging Household Goods Non-specific Food Applications Packaging Seals Toothbrush Handles Toys
Agency Ratings	EN 71-3 EU 10/2011

Appearance	Natural Color
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.10	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)	5.50	MPa	ISO 37
Tensile Elongation ² (Break)	850	%	ISO 37
Tear Strength ³	11	kN/m	ISO 34-1
Compression Set ⁴			ISO 815
23°C, 72 hr	14	%	
70°C, 24 hr	27	%	
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

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

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