

**THERMOLAST® K TF6CGN (Series: FC)**
**KRAIBURG TPE - Thermoplastic Elastomer**
**General Information**
**Product Description**

The FC series is your material solution for everyday life applications with regulatory requirements. The series is characterized by its PP adhesion. The natural-colored or translucent materials can be colored in many different ways.

**Typical applications**

- Household articles
- Function and design elements
- Grip applications
- Razors
- Toothbrushes
- Toys
- Packaging

**Material advantages**

- Adhesion to PP
- Halogen-free (according to IEC 61249-2-21)
- Colorable
- In-process recycling possible
- ISCC PLUS ready (mass balance approach)

**Regulations / Approvals**

- Regulation (EU) No 10/2011
- US FDA CFR 21 (raw material conformity)
- EN71-3
- ACS (DGS/VS4 n° 200/232)
- Compatible for HDPE Recycling certified by Cyclos HTP
- Compatible for PP Recycling certified by Cyclos HTP

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Europe	• Latin America • North America	
Features	• Good Adhesion • Good Colorability	• Halogen Free • Recyclable Material	
Uses	• Flexible Grips • Household Goods	• Packaging • Toothbrush Handles	• Toys
Agency Ratings	• ACS DGS/VS 4 n° 2000-232 • EN 71-3	• EU 10/2011 • FDA Food Contact	
Appearance	• Natural Color		
Processing Method	• Extrusion	• Injection Molding	

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (Break)	943	psi	ISO 37
Tensile Elongation <sup>2</sup> (Break)	750	%	ISO 37
Tear Strength <sup>3</sup>	97.1	lbf/in	ISO 34-1
Compression Set <sup>4</sup>			ISO 815
73°F, 72 hr	25	%	
158°F, 24 hr	41	%	
212°F, 24 hr	71	%	



Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	60		ISO 48-4

#### Notes

- <sup>1</sup> Typical properties: these are not to be construed as specifications.
- <sup>2</sup> Type S2, 7.9 in/min
- <sup>3</sup> Method Bb, Angle (Nicked)
- <sup>4</sup> Method A

