

THERMOLAST® K TF5CGN (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	• Latin America	• North America
Features	• Good Adhesion	• Halogen Free	
	• Good Colorability	• Recyclable Material	
Uses	• Flexible Grips	• Packaging	• Toys
	• Household Goods	• Toothbrush Handles	
Agency Ratings	• ACS DGS/VS 4 n° 2000-232	• EU 10/2011	
	• EN 71-3	• FDA Food Contact	
Appearance	• Natural Color		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Break)	870	psi	ISO 37
Tensile Elongation ² (Break)	800	%	ISO 37
Tear Strength ³	79.9	lbf/in	ISO 34-1
Compression Set ⁴			ISO 815
73°F, 72 hr	20	%	
158°F, 24 hr	36	%	
212°F, 24 hr	68	%	



Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	50		ISO 48-4

Notes

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

