THERMOLAST® K TF2CGT (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	• Translucent		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (Break)	725	psi	ISO 37
Tensile Elongation [2] (Break)	800	%	ISO 37
Tear Strength [3]	45.7	lbf/in	ISO 34-1
Compression Set [4]			ISO 815
73°F, 72 hr	12	%	
158°F, 24 hr	21	%	
212°F, 24 hr	55	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	18		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