

THERMOLAST® K TF5STE (Series: FC/CS)

KRAIBURG TPE - *Thermoplastic Elastomer*

General Information

Product Description

The FC/CS series is your material solution for everyday life applications with regulatory requirements. The series is characterized by its optimized compression set, its good mechanical properties and its adhesion to PP. The translucent materials can be colored in many different ways.

Typical applications

- Seals for housings
- Flexible Connections
- Household articles
- Membranes
- Valves
- Packaging (for food and care products)
- Closures
- Bumpers

Material advantages

- Optimized compression set
- Adhesion to PP
- Hysteresis
- Colorable
- Soft touch surface
- Free from animal ingredients
- In-process recycling possible
- Optimized mechanical properties

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21 (raw material conformity)
- EN71-3
- 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 • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability	• Good Compression Set • No Animal Derived Components	• Recyclable Material • Soft
Uses	• Automotive Bumper • Closures • Connectors	• Food Packaging • Household Goods • Membranes	• Packaging • Seals • Valves/Valve Parts
Agency Ratings	• 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	0.890	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Break)	1600	psi	ISO 37
Tensile Elongation ² (Break)	850	%	ISO 37
Tear Strength ³	97.1	lbf/in	ISO 34-1



Compression Set ⁴		ISO 815
73°F, 72 hr	23 %	
158°F, 24 hr	36 %	
212°F, 24 hr	48 %	
Hardness	Nominal Value	Unit
Shore Hardness (Shore A)	54	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

