

THERMOLAST® K TF6STE (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) | 1810 | psi | ISO 37 |
| Tensile Elongation ² (Break) | 800 | % | ISO 37 |
| Tear Strength ³ | 123 | lbf/in | ISO 34-1 |



| | | |
|------------------------------|----------------------|-------------|
| Compression Set ⁴ | | ISO 815 |
| 73°F, 72 hr | 29 % | |
| 158°F, 24 hr | 40 % | |
| 212°F, 24 hr | 53 % | |
| Hardness | Nominal Value | Unit |
| Shore Hardness (Shore A) | 65 | 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

