

THERMOLAST® K TF4ZGO-LCNT (Series: FC/S)
KRAIBURG TPE - Thermoplastic Elastomer
General Information
Product Description

The FC/S series is your super-soft material solution for everyday life applications with regulatory requirements and outstanding dry and pleasant surface haptics. The compounds are available in translucent and can be colored in many different ways.

Typical applications

- Cushioning
- Protectors
- Toys
- Baits
- Function and design elements
- Fun articles
- Seals
- Bumpers
- Grommets

Material advantages

- Soft, velvety feel
- Dry haptics
- Optimized mechanical properties at low hardnesses
- Resilience
- Elasticity
- Precoloration in all colors
- Colorable, also in effect colors
- Free from animal ingredients
- No silicones added
- Suitable for processing in granule-based 3D printing

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21 (raw material conformity)
- EN71-3
- ISO 10993-10 (Skin irritation)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Colorability • Good Elasticity	• No Animal Derived Components • Resilient	• Soft
Uses	• Automotive Bumper • Grommets	• Seals • Toys	
Agency Ratings	• EN 71-3 • EU 10/2011	• FDA Food Contact • ISO 10993-10	
Appearance	• Translucent		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.873	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	14.5	psi	ISO 37
Tensile Stress ² (300% Strain)	29.0	psi	ISO 37
Tensile Elongation ³ (Break)	> 1000	%	ISO 37



Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore OO)	45		ASTM D2240
Shore Hardness ⁴	60		ISO 48-4

Notes

¹ Typical properties: these are not to be construed as specifications.

² 7.9 in/min

³ Type S2, 7.9 in/min

⁴ VLRH

