

THERMOLAST® K TF3STE (Series: FC/CS)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

The FC/CS Series is your material solution for applications with food contact providing an excellent compression set. The series is available in translucent colors.

Typical applications

- Closures
- Flexible Connections
- Household articles
- Membranes
- Packaging (for food and careproducts)
- Seals
- Valves

Material advantages

- Adhesion to PP
- Applications with food contact
- Code of Federal Regulations, Title 21 (CFR 21) "FDA"
- Easy coloring (compounds in natural colors)
- EN71/3
- Excellent mechanical properties
- For injection molding and extrusion
- High elasticity
- Perfect surface finish
- Recyclable
- Regulation (EU) No. 10/2011
- Service temperature: -40°C to+120°C (dynamic stress: up to 100°C)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable • High Elasticity	• Outstanding Surface Finish • Recyclable Material	
Uses	• Closures • Connectors • Food Packaging	• Household Goods • Membranes • Non-specific Food Applications	• Packaging • Seals • Valves/Valve Parts
Agency Ratings	• EN 71-3	• EU 10/2011	• FDA Food Contact, Unspecified Rating
Appearance	• Translucent		
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.890 g/cm ³	0.890 g/cm ³	ISO 1183
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress ² (Yield)	1020 psi	7.00 MPa	ISO 37
Tensile Elongation ² (Break)	800 %	800 %	ISO 37
Tear Strength ³	60 lbf/in	11 kN/m	ISO 34-1
Compression Set ⁴			ISO 815
73°F (23°C), 72 hr	15 %	15 %	
158°F (70°C), 24 hr	26 %	26 %	
212°F (100°C), 24 hr	42 %	42 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore A)	33	33	ISO 7619



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Extrusion	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	140 to 176 °F	60 to 80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Cylinder Zone 1 Temp.	320 °F	160 °C
Cylinder Zone 2 Temp.	356 °F	180 °C
Cylinder Zone 3 Temp.	392 °F	200 °C
Die Temperature	392 to 446 °F	200 to 230 °C

Notes

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

² Type S2, 7.9 in/min (200 mm/min)

³ Method Bb, Angle (Nicked)

⁴ Method A



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Where to Buy

Supplier

KRAIBURG TPE

Duluth, GA USA

Telephone: 678-584-5020

Web: <http://www.kraiburgtpe.com/>

Distributor

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>

Telephone: 800-232-4273

Web: <http://www.chaseplastics.com/>

Availability: North America

Resin Resource, Inc.

Telephone: 877-652-3431

Web: <http://www.resinresourceinc.com/>

Availability: North America

Resinal de México

Telephone: +52-55-5254-7600

Web: <http://resinal.mx/>

Availability: Mexico

