

THERMOLAST® K TF4STE (Series: FC/CS)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

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 Information	
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	Unit	Test Method
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Density	0.890	g/cm ³	ISO 1183
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Hardness	Nominal Value	Unit	Test Method
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Shore Hardness (Shore A)	44		ISO 7619
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Elastomers	Nominal Value	Unit	Test Method
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Tensile Stress ¹ (Yield)	9.00	MPa	ISO 37
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Tensile Elongation ² (Break)	850	%	ISO 37
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Tear Strength ³	14	kN/m	ISO 34-1
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Compression Set ⁴			ISO 815
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23°C, 72 hr	20	%	
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70°C, 24 hr	30	%	
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100°C, 24 hr	45	%	
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Extrusion	Nominal Value	Unit
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Drying Temperature	60.0 to 80.0	°C
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Drying Time	2.0 to 4.0	hr
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Cylinder Zone 1 Temp.	160	°C
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Cylinder Zone 2 Temp.	180	°C
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Cylinder Zone 3 Temp.	200	°C
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Die Temperature	200 to 230	°C
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NOTE		
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1.	Type S2, 200 mm/min
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2.	Type S2, 200 mm/min
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3.	Method Bb, Angle (Nicked)
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4.	Method A
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