

THERMOLAST® K TC5CSN (Series: CS)

KRAIBURG TPE - *Thermoplastic Elastomer*

General Information

Product Description

The CS series is your material solution for sealing applications, also with adhesion to PP. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Typical applications

- Attenuators for electronic housings
- Function and design elements
- Handles (hand tools and power tools etc.)
- Cable holders
- Seals
- Fastenings
- Grommets
- Connectors
- Bumpers
- Mechanical components

Material advantages

- Adhesion to PP
- Temperature stability up to 110 °C
- Optimized compression set
- Long-term sealing function
- Optimized mechanical properties
- Hysteresis
- Optimized flow properties
- Resilience
- In-process recycling possible
- Demolding

Regulations / Approvals

- DIN 75201-B - Fogging
- 49 CFR §571.302 (FMVSS 302)
- PV 3930 Florida (1 year)
- PV 3930 Florida (2 years)
- PV 3929 Kalahari (1 year)
- PV 3929 Kalahari (2 years)
- VW 50123
- BMW GS 93042
- Daimler DBL 5562
- PSA B62 0300
- Renault 03-10-104
- FCA MS-DC-242
- UL 94 HB

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Latin America	• North America
	• Europe		
Features	• Good Adhesion	• Good Flow	• Recyclable Material
	• Good Compression Set	• Good Thermal Stability	• Resilient
Uses	• Automotive Bumper	• Grommets	• Seals
	• Fasteners	• Membranes	
Agency Ratings	• DIN 75201B		
Automotive Specifications	• BMW GS 93042	• STELLANTIS B62 0300	
	• MERCEDES BENZ DBL 5562	• VOLKSWAGEN 50123	



Appearance	• Natural Color
Processing Method	• Extrusion • Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Break)	1020	psi	ISO 37
Tensile Elongation ² (Break)	550	%	ISO 37
Tear Strength ³	79.9	lbf/in	ISO 34-1
Compression Set ⁴			ISO 815
73°F, 72 hr	17	%	
158°F, 24 hr	21	%	
212°F, 24 hr	35	%	
248°F, 24 hr	60	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	46		ISO 48-4
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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

