THERMOLAST® K TC6CSZ (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

- Seals
- Fastenings
- Grommets
- Cable clips
- Membranes
- Applications in e-mobility
- Bumpers

Material advantages

- Adhesion to PP
- Temperature stability up to 110 °C
- Optimized compression set
- Optimized mechanical properties
- Optimized resilience
- In-process recycling possible
- Resistance to polar coolants

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
- Mercedes-Benz DBL 5562
- Stellantis B62 0300
- Renault 03-10-104
- Stellantis MS-DC-242
- UL 94 HB

General

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 1183

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress [2] (Break)	1230	psi	ISO 37
Tensile Elongation [2] (Break)	550	%	ISO 37
Tear Strength [3]	97.1	lbf/in	ISO 34-1
Compression Set [4]			ISO 815
73°F, 72 hr	22	%	
158°F, 24 hr	25	%	
212°F, 24 hr	37	%	
248°F, 24 hr	62	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	59		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