

## THERMOLAST® K TC9CSN (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   | • Latin America          | • North America       |
| 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 <sup>1</sup>

| Physical | Nominal Value | Unit              | Test Method |
|----------|---------------|-------------------|-------------|
| Density  | 1.10          | g/cm <sup>3</sup> | ISO 1183    |



| <b>Elastomers</b>                       | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
|-----------------------------------------|----------------------|-------------|--------------------|
| Tensile Stress <sup>2</sup> (Break)     | 1600                 | psi         | ISO 37             |
| Tensile Elongation <sup>2</sup> (Break) | 500                  | %           | ISO 37             |
| Tear Strength <sup>3</sup>              | 171                  | lbf/in      | ISO 34-1           |
| Compression Set <sup>4</sup>            |                      |             | ISO 815            |
| 73°F, 72 hr                             | 36                   | %           |                    |
| 158°F, 24 hr                            | 45                   | %           |                    |
| 212°F, 24 hr                            | 63                   | %           |                    |
| 248°F, 24 hr                            | 80                   | %           |                    |
| <b>Hardness</b>                         | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Shore Hardness (Shore A)                | 87                   |             | ISO 48-4           |
| <b>Flammability</b>                     | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Flame Rating                            | HB                   |             | UL 94              |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type S2, 7.9 in/min

<sup>3</sup> Method Bb, Angle (Nicked)

<sup>4</sup> Method A

