

# THERMOLAST® K TC5CSZ (Series: CS)

Thermoplastic Elastomer

KRAIBURG TPE

## Message:

The CS Series is your material solution for sealing applications, providing an excellent compression set. The compounds are available in natural and black colors.

Typical applications

Fastenings

Grommets

Membranes

Seals

Material advantages

Adhesion to PP

Easy coloring (compounds in natural colors)

Excellent compression set

Excellent heat stability

| General Information                     |                        |                   |             |
|-----------------------------------------|------------------------|-------------------|-------------|
| Features                                | Good Adhesion          |                   |             |
|                                         | Good Thermal Stability |                   |             |
| Uses                                    | Fasteners              |                   |             |
|                                         | Grommets               |                   |             |
|                                         | Membranes              |                   |             |
|                                         | Seals                  |                   |             |
| Appearance                              | Black                  |                   |             |
| Processing Method                       | Extrusion              |                   |             |
|                                         | Injection Molding      |                   |             |
| Physical                                | Nominal Value          | Unit              | Test Method |
| Density                                 | 1.10                   | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                                | Nominal Value          | Unit              | Test Method |
| Shore Hardness (Shore A)                | 50                     |                   | ISO 7619    |
| Elastomers                              | Nominal Value          | Unit              | Test Method |
| Tensile Stress <sup>1</sup> (Yield)     | 6.00                   | MPa               | ISO 37      |
| Tensile Elongation <sup>2</sup> (Break) | 500                    | %                 | ISO 37      |
| Tear Strength <sup>3</sup>              | 12                     | kN/m              | ISO 34-1    |
| Compression Set <sup>4</sup>            |                        |                   | ISO 815     |
| 23°C, 72 hr                             | 13                     | %                 |             |
| 70°C, 24 hr                             | 21                     | %                 |             |
| 100°C, 24 hr                            | 32                     | %                 |             |
| 120°C, 24 hr                            | 46                     | %                 |             |
| Extrusion                               | Nominal Value          | Unit              |             |

|                       |              |    |
|-----------------------|--------------|----|
| Drying Temperature    | 60.0 to 80.0 | °C |
| Drying Time           | 2.0 to 4.0   | hr |
| Cylinder Zone 1 Temp. | 160          | °C |
| Cylinder Zone 2 Temp. | 180          | °C |
| Cylinder Zone 3 Temp. | 200          | °C |
| Die Temperature       | 200 to 230   | °C |

#### NOTE

- |    |                           |
|----|---------------------------|
| 1. | Type S2, 200 mm/min       |
| 2. | Type S2, 200 mm/min       |
| 3. | Method Bb, Angle (Nicked) |
| 4. | Method A                  |

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