

## THERMOLAST® K TL4OCW-BLCK (Series: LW/CS/UV)

KRAIBURG TPE - *Thermoplastic Elastomer*

### General Information

#### Product Description

The LW/CS/UV Series is your lightweight material solution for applications with superior requirements on sealing performance. The compounds are especially suited for automotive exterior applications. They are available in black colors.

#### Typical applications

- Automotive Exterior
- Seals
- Glass Run Channel
- Seals for windows and doors
- Grommets
- Heavy-walled parts

#### Material advantages

- Low density
- Adhesion to PP
- Optimized compression set
- UV and weathering resistance
- Resilience
- Non-sticky surface
- In-process recycling possible
- Low shrinkage properties
- Low tendency to warpage

#### General

|                   |                                                                                         |                                                                           |                               |
|-------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------|
| Material Status   | • Commercial: Active                                                                    |                                                                           |                               |
| Availability      | • Africa & Middle East<br>• Asia Pacific                                                | • Europe<br>• Latin America                                               | • North America               |
| Features          | • Good Adhesion<br>• Good Compression Set<br>• Good Weather Resistance<br>• Low Density | • Low Shrinkage<br>• Low Warpage<br>• Non-sticky<br>• Recyclable Material | • Resilient<br>• UV Resistant |
| Uses              | • Automotive Exterior Parts<br>• Gaskets                                                | • Grommets<br>• Seals                                                     | • Thick-walled Parts          |
| Appearance        | • Black                                                                                 |                                                                           |                               |
| Processing Method | • Extrusion                                                                             | • Injection Molding                                                       |                               |

### Properties <sup>1</sup>

| Physical                                | Nominal Value | Unit              | Test Method |
|-----------------------------------------|---------------|-------------------|-------------|
| Density                                 | 0.800         | g/cm <sup>3</sup> | ISO 1183    |
| Elastomers                              | Nominal Value | Unit              | Test Method |
| Tensile Stress <sup>2</sup> (Yield)     | 508           | psi               | ISO 37      |
| Tensile Elongation <sup>2</sup> (Break) | 360           | %                 | ISO 37      |
| Tear Strength <sup>3</sup>              | 57.1          | lbf/in            | ISO 34-1    |
| Compression Set <sup>4</sup>            |               |                   | ISO 815     |
| 73°F, 72 hr                             | 12            | %                 |             |
| 158°F, 24 hr                            | 16            | %                 |             |
| 212°F, 24 hr                            | 31            | %                 |             |
| Hardness                                | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore A)                | 45            |                   | ISO 48-4    |
| Additional Information                  | Nominal Value | Unit              | Test Method |
| Adhesion to PA6 - (D) <sup>5</sup>      | 19            | lbf/in            | VDI 2019    |



|                                     |           |          |
|-------------------------------------|-----------|----------|
| Adhesion to PA66 - (D) <sup>5</sup> | 19 lbf/in | VDI 2019 |
| Adhesion to PP - (D) <sup>5</sup>   | 14 lbf/in | VDI 2019 |

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
- <sup>5</sup> Two-component injection molding

