# THERMOLAST® K TL7OWG-BLCK (Series: LW/UV)

**KRAIBURG TPE - *Thermoplastic Elastomer***

## General Information

### Product Description

The LW/UV Series is your lightweight material solution for applications with high UV- and weathering resistance, especially in automotive exterior. The compounds are available in black colors.

Typical applications

- Automotive Exterior
- Water deflectors
- Roof racks
- Function and design elements
- Bumpers
- Edge guards
- Heavy-walled parts
- Cowls gaskets

Material advantages

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

Regulations / Approvals

- 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)
- Outdoor Weathering Florida 12 month SAE J1976
- Outdoor Weathering Florida 24 month SAE J1976
- Outdoor Weathering Arizona 12 month SAE J1976
- Outdoor Weathering Arizona 24 month SAE J1976
- Mercedes-Benz DBL 5562

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Good Adhesion<br>• Good Weather Resistance<br>• Low Density | • Low Shrinkage<br>• Low Warpage<br>• Non-Stick | • Recyclable Material<br>• UV Resistant |
| Uses | • Automotive Bumper<br>• Automotive Exterior Parts | • Gaskets<br>• Racks | • Soft Touch Applications<br>• Thick-walled Parts |
| Automotive Specifications | • FMVSS 302 | | |
| Appearance | • Black | | |
| Processing Method | • Extrusion | • Injection Molding | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.725 | g/cm³ | ISO 1183 |
| Spiral Flow [2] | 24.8 | in | |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [3] (Yield) | 464 | psi | ISO 37 |

| | | | |
|---|---|---|---|
| Tensile Elongation [3] (Break) | 250 | % | ISO 37 |
| Tear Strength [4] | 77.1 | lbf/in | ISO 34-1 |
| Compression Set [5] | | | ISO 815 |
| 73°F, 72 hr | 18 | % | |
| 158°F, 24 hr | 30 | % | |

| Hardness | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Shore Hardness (Shore A) | 70 | | ISO 48-4 |

**Notes**

[1] Typical properties: these are not to be construed as specifications.

[2] Mold Temperature: 392°F, Injection Pressure: 1.10E+4 psi

[3] Type S2, 7.9 in/min

[4] Method Bb, Angle (Nicked)

[5] Method A