

## THERMOLAST® K TC4LEZ (Series: UV/FG)

KRAIBURG TPE - *Thermoplastic Elastomer*

### General Information

#### Product Description

The UV/FG series is your material solution for applications requiring UV resistance and adhesion to PP. The compounds are suitable for automotive exterior applications and available in black.

#### Typical applications

- Roof racks
- Water deflectors
- Cowls gaskets
- Active Grill Shutter (AGS)
- Air guide elements
- A/B/C/D cappings and covers
- Air intake duct and air filter
- Door opener
- Door trims
- Wheel arch liner
- Underbody guard

#### Material advantages

- Weather resistant, suitable for automotive exterior
- Adhesion to PP
- In-process recycling possible

#### 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 24 month SAE J1976
- Outdoor Weathering Arizona 24 month SAE J1976
- VW 50123
- BMW GS 93042
- Daimler DBL 5562
- PSA B62 0300
- Renault 03-10-104
- GM GMW 16233

#### 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 | • Recyclable Material<br>• UV Resistant     |                 |
| Uses                      | • Automotive Exterior Parts<br>• Gaskets     | • Racks<br>• Window & Door Components       |                 |
| Automotive Specifications | • GM GMW16233<br>• MERCEDES BENZ DBL 5562    | • STELLANTIS B62 0300<br>• VOLKSWAGEN 50123 |                 |
| Appearance                | • Black                                      |                                             |                 |
| Processing Method         | • Injection Molding                          |                                             |                 |

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

| Physical | Nominal Value | Unit | Test Method |
|----------|---------------|------|-------------|
|----------|---------------|------|-------------|



|                                         |                           |                    |
|-----------------------------------------|---------------------------|--------------------|
| Density                                 | 0.980 g/cm <sup>3</sup>   | ISO 1183           |
| Spiral Flow <sup>2</sup>                | 35.4 in                   |                    |
| <b>Elastomers</b>                       | <b>Nominal Value Unit</b> | <b>Test Method</b> |
| Tensile Stress <sup>3</sup> (Yield)     | 1020 psi                  | ISO 37             |
| Tensile Elongation <sup>3</sup> (Break) | 850 %                     | ISO 37             |
| Tear Strength <sup>4</sup>              | 68.5 lbf/in               | ISO 34-1           |
| Compression Set <sup>5</sup>            |                           | ISO 815            |
| 73°F, 72 hr                             | 22 %                      |                    |
| 158°F, 24 hr                            | 36 %                      |                    |
| 212°F, 24 hr                            | 61 %                      |                    |
| <b>Hardness</b>                         | <b>Nominal Value Unit</b> | <b>Test Method</b> |
| Shore Hardness (Shore A)                | 42                        | ISO 48-4           |

#### Notes

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

<sup>2</sup> Injection Pressure: 1.02E+3 psi

<sup>3</sup> Type S2, 7.9 in/min

<sup>4</sup> Method Bb, Angle (Nicked)

<sup>5</sup> Method A

