

## THERMOLAST® K TC0GPN (Series: GP/FG)

### KRAIBURG TPE - Thermoplastic Elastomer

#### General Information

##### Product Description

Universal application; adhesion to PP

##### Typical applications

- Car mats
- Handles (tools and power tools, adjustment lever, etc.)
- Air guide elements
- Air flap control
- Seals for housings
- Fasteners
- Cable clips
- Bumpers
- Joint sealing

##### Material advantages

- Adhesion to PP
- Soft touch surface
- Optimized mechanical properties
- Colorable
- Controlled level of emission and odor, suitable for automotive interior
- Dry haptics
- Halogen-free (according to IEC 61249-2-21)
- In-process recycling possible

##### Regulations / Approvals

- DIN 75201-B - Fogging
- VDA 270 B3 - Odor
- 49 CFR §571.302 (FMVSS 302)
- DIN EN ISO 105-B06 Methode 3
- VW 50123
- BMW GS 93042
- Mercedes-Benz DBL 5562
- UL 94 HB

##### General

|                           |  |  |   |
|---------------------------|--|--|---|
| Material Status           | • Commercial: Active                                     |  |   |
| Availability              | • Africa & Middle East<br>• Asia Pacific                 | • Europe<br>• Latin America                            | • North America                             |
| Features                  | • Good Adhesion<br>• Good Colorability<br>• Halogen Free | • Low Emissions<br>• Low Odor<br>• Recyclable Material | • Soft                                      |
| Uses                      | • Automotive Bumper<br>• Automotive Interior Parts       | • Fasteners<br>• Handles                               | • Seals<br>• Soft Touch Applications        |
| Agency Ratings            | • DIN 75201B   |  |   |
| Automotive Specifications | • BMW GS 93042<br>• FORD WSS-M2D507                      | • GM GMW15702<br>• MERCEDES BENZ DBL 5562              | • STELLANTIS B62 0300<br>• 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    |

##### Elastomers

Nominal Value Unit Test Method



|   |                      |             |
|---|----------------------|-------------|
| Tensile Stress <sup>2</sup> (Break)     | 2180 psi             | ISO 37      |
| Tensile Elongation <sup>2</sup> (Break) | 650 %                | ISO 37      |
| Tear Strength <sup>3</sup>              | 263 lbf/in           | ISO 34-1    |
| Compression Set <sup>4, 5</sup>         |                      | ISO 815     |
| 73°F, 72 hr                             | 50 %                 |             |
| 158°F, 24 hr                            | 67 %                 |             |
| 212°F, 24 hr                            | 78 %                 |             |
| <b>Hardness</b>                         | <b>Nominal Value</b> | <b>Unit</b> |
| Shore Hardness (Shore D)                | 33                   | ISO 48-4    |
| <b>Flammability</b>                     | <b>Nominal Value</b> | <b>Unit</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> Type 1

<sup>5</sup> Method A

