

## THERMOLAST® K TC7GPZ (Series: GP/FG)

KRAIBURG TPE - *Thermoplastic Elastomer*

### General Information

#### Product Description

The GP/FG series is your material solution for a variety of applications. It is suitable for automotive interiors. The compounds are available in black and natural colors. Natural colored variants can be colored in many different ways.

#### 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
- PV 3930 Florida (1 year)
- PV 3929 Kalahari (1 year)
- VW 50123
- BMW GS 93042
- Mercedes-Benz DBL 5562
- Stellantis B62 0300
- Renault 03-10-104
- Ford WSS-M2D507
- Ford WSS-M2D516
- GM GMW15702
- 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        | • Black                         |
| 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)     | 1310          | psi               | ISO 37      |
| Tensile Elongation <sup>2</sup> (Break) | 750           | %                 | ISO 37      |
| Tear Strength <sup>3</sup>              | 126           | lbf/in            | ISO 34-1    |
| Compression Set <sup>4</sup>            |               |                   | ISO 815     |
| 73°F, 72 hr                             | 29            | %                 |             |
| 158°F, 24 hr                            | 46            | %                 |             |
| 212°F, 24 hr                            | 72            | %                 |             |
| Hardness                                | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore A)                | 68            |                   | ISO 48-4    |
| Flammability                            | Nominal Value | Unit              | Test Method |
| 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> Method A                                                             |

