

THERMOLAST® K TC4GPZ (Series: GP/FG)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The GP/FG Series is your material solution for a variety of different applications. It is particularly appropriate for passenger compartments. The compounds are available in natural and black colors.

Typical applications

Car mats

Function and design elements

Handles (tools, toolboxes, skipoles)

Seals

Soft touch surface (thumb wheels, push buttons, switches)

Material advantages

Adhesion to PP

Easy coloring (compounds in natural colors)

Excellent mechanical properties

Excellent processing behavior

Fulfills specifications for automotive interior

Pleasant surface feel (Soft touch)

UL 94 HB listed

| General Information | | | |
|---|---------------------------|----------------|-------------|
| UL YellowCard | E353857-101117931 | E214822-586887 | |
| Features | Good Adhesion | | |
| | Good Processability | | |
| Uses | Automotive Interior Parts | | |
| | Handles | | |
| | Seals | | |
| | Soft Touch Applications | | |
| Appearance | Black | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.10 | g/cm³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 38 | | ISO 7619 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ (Yield) | 5.00 | MPa | ISO 37 |
| Tensile Elongation ² (Break) | 750 | % | ISO 37 |
| Tear Strength ³ | 11 | kN/m | ISO 34-1 |
| Compression Set ⁴ | | | ISO 815 |
| 23°C, 72 hr | 10 | % | |

| 70°C, 24 hr | 32 | % |
|-----------------------|---------------------------|-------------|
| 100°C, 24 hr | 62 | % |
| Flammability | Nominal Value | Test Method |
| Flame Rating | HB | UL 94 |
| Extrusion | Nominal Value | Unit |
| Drying Temperature | 60.0 to 80.0 | °C |
| Drying Time | 2.0 to 4.0 | hr |
| Cylinder Zone 1 Temp. | 160 | °C |
| Cylinder Zone 2 Temp. | 180 | °C |
| Cylinder Zone 3 Temp. | 200 | °C |
| Die Temperature | 200 to 230 | °C |
| NOTE | | |
| 1. | Type S2, 200 mm/min | |
| 2. | Type S2, 200 mm/min | |
| 3. | Method Bb, Angle (Nicked) | |
| 4. | Method A | |

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