

THERMOLAST® K TC5GPN (Series: GP/FG)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

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Technical Data

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
- Seals for housings
- Function and design elements
- Bumpers
- Handles (hand tools and power tools etc.)
- Soft touch surface (thumb wheels, push buttons, switches)

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
- Daimler DBL 5562
- PSA B62 0300
- Renault 03-10-104
- Ford WSS-M2D507
- Ford WSS-M2D516
- GM GMW15702
- UL 94 HB

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E353857-101117931 • E214822-586887 • E488345-102949526
Search for UL Yellow Card	• KRAIBURG TPE • THERMOLAST® K
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Good Adhesion • Good Colorability • Halogen Free • Recyclable Material • Soft
Uses	• Automotive Bumper • Automotive Interior Parts • Handles • Seals • Soft Touch Applications
Agency Ratings	• DIN 75201B
Appearance	• Natural Color



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General

Processing Method • Extrusion • Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.10 g/cm ³	ISO 1183
Elastomers	Nominal Value Unit	Test Method
Tensile Stress ⁴ (Break)	7.50 MPa	ISO 37
Tensile Elongation ⁴ (Break)	800 %	ISO 37
Tear Strength ⁵	14.0 kN/m	ISO 34-1
Compression Set ⁶		ISO 815
23°C, 72 hr	16 %	
70°C, 24 hr	30 %	
100°C, 24 hr	67 %	
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	49	ISO 48-4
Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Type S2, 200 mm/min

⁵ Method Bb, Angle (Nicked)

⁶ Method A



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Where to Buy

Supplier

KRAIBURG TPE

Buford, Buford USA

Telephone: 678-584-5020

Web: <http://www.kraiburgtpe.com/>

Distributor

Please contact the supplier to find a distributor for THERMOLAST® K TC5GPN (Series: GP/FG)

