

THERMOLAST® K TC5GPN (Series: GP/FG)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

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

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Good Adhesion • Good Colorability • Good Processability
Uses	• Automotive Interior Parts • Handles • Seals • Soft Touch Applications
Appearance	• Natural Color
Processing Method	• Extrusion • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.10 g/cm ³	1.10 g/cm ³	ISO 1183

Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress ² (Yield)	1090 psi	7.50 MPa	ISO 37
Tensile Elongation ² (Break)	800 %	800 %	ISO 37
Tear Strength ³	80 lbf/in	14 kN/m	ISO 34-1
Compression Set ⁴			ISO 815
73°F (23°C), 72 hr	16 %	16 %	
158°F (70°C), 24 hr	27 %	27 %	
212°F (100°C), 24 hr	53 %	53 %	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore A)	49	49	ISO 7619

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Extrusion	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	140 to 176 °F	60 to 80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Cylinder Zone 1 Temp.	320 °F	160 °C
Cylinder Zone 2 Temp.	356 °F	180 °C
Cylinder Zone 3 Temp.	392 °F	200 °C
Die Temperature	392 to 446 °F	200 to 230 °C



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Notes

¹ Typical properties: these are not to be construed as specifications.

² Type S2, 7.9 in/min (200 mm/min)

³ Method Bb, Angle (Nicked)

⁴ Method A



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Where to Buy

Supplier

KRAIBURG TPE

Duluth, GA USA

Telephone: 678-584-5020

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

Distributor

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>

Telephone: 800-232-4273

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

Availability: North America

Resin Resource, Inc.

Telephone: 877-652-3431

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

Availability: North America

Resinal de México

Telephone: +52-55-5254-7600

Web: <http://resinal.mx/>

Availability: Mexico

