

THERMOLAST® K TC4TPZ (Series: GP/AP)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

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Technical Data

Product Description

The GP/AP Series is your material solution for technical applications with excellent adhesion to PP. The compounds are available in natural and black colors.

Typical applications

- Function and design elements
- Handles (tools, toolboxes, skipoles)
- Soft touch for grips, switches and mats

Material advantages

- Adhesion to PP
- Easy coloring (compounds in natural colors)
- Easy flowing
- Excellent mechanical properties
- Good weathering resistance

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Good Adhesion • Good Flow • Weather Resistant
Uses	• Handles • Soft Touch Applications • Switches
Appearance	• Black
Processing Method	• 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)	580 psi	4.00 MPa	ISO 37
Tensile Elongation ² (Break)	650 %	650 %	ISO 37
Tear Strength ³	63 lbf/in	11 kN/m	ISO 34-1
Compression Set ⁴			ISO 815
73°F (23°C), 72 hr	12 %	12 %	
158°F (70°C), 24 hr	33 %	33 %	
212°F (100°C), 24 hr	68 %	68 %	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore A)	38	38	ISO 7619

Injection	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
Rear Temperature	356 °F	180 °C
Middle Temperature	392 °F	200 °C
Front Temperature	428 °F	220 °C
Mold Temperature	77 to 104 °F	25 to 40 °C
Injection Pressure	2900 to 14500 psi	20.0 to 100 MPa
Back Pressure	290 to 1450 psi	2.00 to 10.0 MPa

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

Please contact the supplier to find a distributor for THERMOLAST® K TC4TPZ (Series: GP/AP)

