

THERMOLAST® K TP5CDZ (Series: EX)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

The EX Series is your material solution for extrusion applications such as door seals and window gaskets. The compounds are available in natural and black colors.

Typical applications

- Edge guards
- Profiles for furniture
- Seals for windows and doors

Material advantages

- Alternative material to PVC-P
- Easy coloring (compounds in natural colors)
- Easy to extrude
- Excellent mechanical properties
- Excellent weldability
- Halogen-free
- No interaction with other materials (e.g. PVC-U, PP, PS, ABS, POM, PA, PC, PMMA)
- Recyclable
- Resistant to acrylic paints

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• KRAIBURG TPE • THERMOLAST® K
Availability	• Africa & Middle East • Europe • Latin America • North America
Features	• Good Colorability • Halogen Free • Recyclable Material • Weldable
Uses	• Furniture • Gaskets • Profiles • Seals
Appearance	• Black
Processing Method	• Extrusion • Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.19 g/cm ³	ISO 1183
Elastomers	Nominal Value Unit	Test Method
Tensile Stress ³ (Break)	4.00 MPa	ISO 37
Tensile Elongation ³ (Break)	600 %	ISO 37
Tear Strength ⁴	16.0 kN/m	ISO 34-1
Compression Set ⁵		ISO 815
23°C, 72 hr	15 %	
70°C, 24 hr	54 %	
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	52	ISO 7619



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Injection	Nominal Value Unit
Drying Temperature	60 to 80 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	180 °C
Middle Temperature	190 °C
Front Temperature	200 °C
Mold Temperature	25 to 40 °C
Injection Pressure	20.0 to 100 MPa
Back Pressure	2.00 to 10.0 MPa
Extrusion	Nominal Value Unit
Drying Temperature	60 to 80 °C
Drying Time	2.0 to 4.0 hr
Cylinder Zone 1 Temp.	140 °C
Cylinder Zone 2 Temp.	150 °C
Cylinder Zone 3 Temp.	160 °C
Die Temperature	180 to 190 °C
Screw L/D Ratio	25.0:1.0

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

³ Type S2, 200 mm/min

⁴ Method Bb, Angle (Nicked)

⁵ 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

Lenorplastics Zug

Telephone: +41-41-798-02-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Hungary, Poland

