THERMOLAST® K TP8CDB (Series: EX)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

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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
- Easy to extrude
- Excellent mechanical properties
- Excellent weldabililty
- 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	• Natural Color	
Processing Method	• Extrusion	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.17 g/cm³	1.17 g/cm³	ISO 1183
Elastomers	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Stress [3] (Yield)	870 psi	6.00 MPa	ISO 37
Tensile Elongation [3] (Break)	650 %	650 %	ISO 37
Tear Strength	130 lbf/in	22 kN/m	ISO 34-1
Compression Set			ISO 815
-13°F (-25°C), 24 hr	75 %	75 %	
73°F (23°C), 72 hr	29 %	29 %	
158°F (70°C), 24 hr	72 %	72 %	
212°F (100°C), 24 hr	85 %	85 %	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Shore Hardness (Shore A)	77	77	ISO 7619

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	140 °F	60.0 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	356 °F	180 °C
Middle Temperature	374 °F	190 °C

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Injection	Nominal Value (English)	Nominal Value (SI)
Front Temperature	392 °F	200 °C
Mold Temperature	77.0 to 104 °F	25.0 to 40.0 °C
Injection Pressure	2900 to 14500 psi	20.0 to 100 MPa
Back Pressure	290 to 725 psi	2.00 to 5.00 MPa

Injection Notes

Hot Runner Temperature: 200 - 250°C
The runner should be empty after a maximum of 2 - 3 shots.

Extrusion	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	140 to 176 °F	60.0 to 80.0 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Cylinder Zone 1 Temp.	284 °F	140 °C
Cylinder Zone 3 Temp.	302 °F	150 °C
Cylinder Zone 5 Temp.	320 °F	160 °C
Head Temperature	338 °F	170 °C
Die Temperature	356 to 374 °F	180 to 190 °C
Extruder Screw L/D Ratio	25.0:1	25.0:1
Extruder Screw Compression Ratio	3.5:1	3.5:1

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, 7.9 in/min (200 mm/min)

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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

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