

# THERMOLAST® K TC8MLZ (Series: AD1)

Thermoplastic Elastomer

**KRAIBURG TPE**

**PROSPECTOR®**

www.ulprospector.com

## Technical Data

### Product Description

The AD1 series is your material solution for applications with adhesion to polar thermoplastics such as ABS, PC and PC/ABS. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

#### Typical applications

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

#### Material advantages

- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Insert molding possible
- Soft touch surface
- Controlled level of emission and odor, suitable for automotive interior
- Colorable
- Soft, non-sticky haptic

#### Regulations / Approvals

- DIN 75201-B - Fogging
- VDA 270 B3 - Odor
- 49 CFR §571.302 (FMVSS 302)
- DIN EN ISO 105-B06 Methode 3
- VW 50123
- BMW GS 93042
- Daimler DBL 5562
- PSA B62 0300
- Renault 03-10-104
- Ford WSS-M2D507
- UL 94 HB

### General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>		
UL Yellow Card <sup>2</sup>	• <a href="#">E353857-101117933</a> • <a href="#">E214822-586863</a> • <a href="#">E488345-102949528</a>		
Search for UL Yellow Card	• <a href="#">KRAIBURG TPE</a> • <a href="#">THERMOLAST® K</a>		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability	• Soft • UV Resistant	
Uses	• Automotive Bumper • Grommets	• Handles • Seals	• Soft Touch Applications
Agency Ratings	• DIN 75201B		
Appearance	• Black		
Processing Method	• Extrusion	• Injection Molding	

### Physical

	Nominal Value	Unit	Test Method
Density	1.10	g/cm <sup>3</sup>	ISO 1183



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Elastomers	Nominal Value Unit	Test Method
Tensile Stress <sup>4</sup> (Break)	5.50 MPa	ISO 37
Tensile Elongation <sup>4</sup> (Break)	400 %	ISO 37
Tear Strength <sup>5</sup>	19.5 kN/m	ISO 34-1
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	77	ISO 48-4
Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94
Additional Information	Nominal Value Unit	Test Method
Adhesion to ABS - (D) <sup>6</sup>	8.0 kN/m	VDI 2019
Adhesion to PC - (D) <sup>6</sup>	8.5 kN/m	VDI 2019

## Notes

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> Type S2, 200 mm/min

<sup>5</sup> Method Bb, Angle (Nicked)

<sup>6</sup> Two-component injection molding



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### Where to Buy

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#### Supplier

##### **KRAIBURG TPE**

Buford, Buford USA

**Telephone:** 678-584-5020

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

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#### Distributor

Please contact the supplier to find a distributor for THERMOLAST® K TC8MLZ (Series: AD1)

