

**THERMOLAST® K TC3MSZ (Series: AD1)**
**KRAIBURG TPE - Thermoplastic Elastomer**
**General Information**
**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
- Mercedes-Benz DBL 5562
- Stellantis B62 0300
- Renault 03-10-104
- Ford WSS-M2D507
- UL 94 HB

**General**

Material Status	• Commercial: Active		
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		
Automotive Specifications	• BMW GS 93042 • FORD WSS-M2D507	• MERCEDES BENZ DBL 5562 • VOLKSWAGEN 50123	
Appearance	• Black		
Processing Method	• Extrusion	• Injection Molding	

**Properties <sup>1</sup>**

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

**Elastomers**

Nominal Value	Unit	Test Method
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Tensile Stress <sup>2</sup> (Break)	290 psi	ISO 37
Tensile Elongation <sup>2</sup> (Break)	600 %	ISO 37
Tear Strength <sup>3</sup>	51.4 lbf/in	ISO 34-1
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>
Shore Hardness (Shore A)	30	ISO 48-4
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>
Flame Rating	HB	UL 94
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>
Adhesion to ABS - (A) <sup>4</sup>	8.6 lbf/in	VDI 2019
Adhesion to PC - (A) <sup>4</sup>	8.6 lbf/in	VDI 2019

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type S2, 7.9 in/min

<sup>3</sup> Method Bb, Angle (Nicked)

<sup>4</sup> Two-component injection molding

