

**THERMOLAST® K TP5VCZ (Series: AD1/CS)**
**KRAIBURG TPE - Thermoplastic Elastomer**
**General Information**
**Product Description**

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

**Typical applications**

- Seals
- Function and design elements
- Cable clips
- Bumpers
- Grommets
- Soft touch surface (thumb wheels, push buttons, switches)

**Material advantages**

- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Adhesion to PBT
- Optimized compression set
- Optimized mechanical properties

**Regulations / Approvals**

- 49 CFR §571.302 (FMVSS 302)
- VW 50123
- BMW GS 93042
- Mercedes-Benz DBL 5562
- Stellantis B62 0300
- UL 94 HB

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Good Adhesion	• Good Compression Set	
	• Good Colorability	• Resilient	
Uses	• Automotive Bumper	• Knobs	• Switches
	• Buttons	• Seals	
	• Grommets	• Soft Touch Applications	
Automotive Specifications	• BMW GS 93042	• STELLANTIS B62 0300	
	• 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
Tensile Stress <sup>2</sup> (Break)	508	psi	ISO 37
Tensile Elongation <sup>2</sup> (Break)	450	%	ISO 37
Tear Strength <sup>3</sup>	68.5	lbf/in	ISO 34-1
Compression Set <sup>4</sup>			ISO 815
73°F, 72 hr	20	%	
158°F, 24 hr	43	%	
212°F, 24 hr	72	%	



<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Shore Hardness (Shore A)	50		ISO 48-4
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	HB		UL 94
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Adhesion to ABS - (C/D) <sup>5</sup>	17	lbf/in	VDI 2019
Adhesion to PC - (B) <sup>5</sup>	17	lbf/in	VDI 2019
Adhesion to PC/ABS - (C/D) <sup>5</sup>	20	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> Method A

<sup>5</sup> Two-component injection molding

