

THERMOLAST® K TP7VCZ (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 ¹

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Break)	1090	psi	ISO 37
Tensile Elongation ² (Break)	650	%	ISO 37
Tear Strength ³	97.1	lbf/in	ISO 34-1
Compression Set ⁴			ISO 815
73°F, 72 hr	23	%	
158°F, 24 hr	46	%	
212°F, 24 hr	65	%	



Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	68		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) ⁵	34	lbf/in	VDI 2019
Adhesion to PC - (D) ⁵	40	lbf/in	VDI 2019
Adhesion to PC/ABS - (D) ⁵	40	lbf/in	VDI 2019

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type S2, 7.9 in/min

³ Method Bb, Angle (Nicked)

⁴ Method A

⁵ Two-component injection molding

