THERMOLAST® K TP5VCN (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 • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability	• Good Compression Set • Resilient	
Uses	• Automotive Bumper • Buttons • Grommets	• Knobs • Seals • Soft Touch Applications	• Switches
Automotive Specifications	• BMW GS 93042 • MERCEDES BENZ DBL 5562	• STELLANTIS B62 0300 • VOLKSWAGEN 50123	
Appearance	• Natural Color		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (Break)	508	psi	ISO 37
Tensile Elongation [2] (Break)	500	%	ISO 37
Tear Strength [3]	68.5	lbf/in	ISO 34-1
Compression Set [4]			ISO 815
73°F, 72 hr	20	%	
158°F, 24 hr	43	%	

212°F, 24 hr	72	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	47		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]	17	lbf/in	VDI 2019
Adhesion to PC - (C/D) [5]	17	lbf/in	VDI 2019
Adhesion to PC/ABS - (D) [5]	23	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