

THERMOLAST® K TC5MLZ (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 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)	537 psi	ISO 37
Tensile Elongation ² (Break)	600 %	ISO 37
Tear Strength ³	85.7 lbf/in	ISO 34-1
Hardness	Nominal Value	Unit
Shore Hardness (Shore A)	49	ISO 48-4
Flammability	Nominal Value	Unit
Flame Rating	HB	UL 94
Additional Information	Nominal Value	Unit
Adhesion to ABS - (B) ⁴	15 lbf/in	VDI 2019
Adhesion to PC - (A) ⁴	13 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 Two-component injection molding

