

THERMOLAST® K TF3ADN (Series: FC/AD1/PS)

KRAIBURG TPE - *Thermoplastic Elastomer*

General Information

Product Description

Applications of Consumer daily life with regulatory requirements; adhesion to polar thermoplastics, e.g. ABS, PC, PC/ABS and PS

Typical applications

- Toys
- Grip applications
- Household articles
- Razors
- Function and design elements
- Toothbrushes
- Soft touch surface (thumb wheels, push buttons, switches)
- Bumpers

Material advantages

- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Adhesion to PET and PETG
- Adhesion to PS
- Soft, velvety feel
- Halogen-free (according to IEC 61249-2-21)
- Colorable

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21 (raw material conformity)
- EN71-3

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability	• Halogen Free • Soft	
Uses	• Automotive Bumper • Buttons • Flexible Grips	• Household Goods • Soft Touch Applications • Switches	• Toothbrush Handles • Toys
Agency Ratings	• EN 71-3	• EU 10/2011	• FDA Food Contact
Appearance	• Natural Color		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Spiral Flow ^{2, 3}	21.7	in	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ⁴ (Break)	363	psi	ISO 37
Tensile Elongation ⁴ (Break)	700	%	ISO 37
Tear Strength ⁵	51.4	lbf/in	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	28		ISO 48-4
Additional Information	Nominal Value	Unit	Test Method
Adhesion to ABS - (A)	14	lbf/in	VDI 2019
Adhesion to PC - (A)	14	lbf/in	VDI 2019



Notes

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

² Melt Temperature: 392°F, Injection Pressure: 1.02E+3 psi

³ DSOP Lab 2032

⁴ Type S2, 7.9 in/min

⁵ Method Bb, Angle (Nicked)

