

## THERMOLAST® K TF8ADN (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 • Flexible Grips	• Household Goods • Soft Touch Applications	• Toothbrush Handles • Toys
Agency Ratings	• EN 71-3	• EU 10/2011	• FDA Food Contact
Appearance	• Natural Color		
Processing Method	• Extrusion	• Injection Molding	

#### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm <sup>3</sup>	ISO 1183
Spiral Flow <sup>2, 3</sup>	9.84	in	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>4</sup> (Break)	1160	psi	ISO 37
Tensile Elongation <sup>4</sup> (Break)	700	%	ISO 37
Tear Strength <sup>5</sup>	166	lbf/in	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	77		ISO 48-4
Additional Information	Nominal Value	Unit	Test Method
Adhesion to ABS - (A)	29	lbf/in	VDI 2019
Adhesion to PC - (A)	34	lbf/in	VDI 2019



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<sup>1</sup> Typical properties: these are not to be construed as specifications.

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<sup>2</sup> Melt Temperature: 392°F, Injection Pressure: 1.02E+3 psi

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<sup>3</sup> DSOP Lab 2032

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<sup>4</sup> Type S2, 7.9 in/min

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<sup>5</sup> Method Bb, Angle (Nicked)

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