

**THERMOLAST® K TF5TAA (Series: FC/AD1/ht)**
**KRAIBURG TPE - Thermoplastic Elastomer**
**General Information**
**Product Description**

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

**Typical applications**

- Toys
- Toothbrushes
- Grip applications
- Household articles
- Razors
- Packaging
- Function and design elements

**Material advantages**

- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Adhesion to PET and PETG
- Transparency
- High grip surface
- Halogen-free (according to IEC 61249-2-21)
- Low density
- Optimized mechanical properties
- Colorable, also in effect colors

**Regulations / Approvals**

- 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 Clarity	• Good Colorability • Halogen Free	• Low Density
Uses	• Flexible Grips • Household Goods	• Packaging • Toothbrush Handles	• Toys
Agency Ratings	• EN 71-3	• FDA Food Contact	
Appearance	• Clear/Transparent		
Processing Method	• Extrusion	• Injection Molding	

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density	0.940	g/cm <sup>3</sup>	ISO 1183
<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress <sup>2</sup> (Break)	2470	psi	ISO 37
Tensile Elongation <sup>2</sup> (Break)	600	%	ISO 37
Tear Strength <sup>3</sup>	257	lbf/in	ISO 34-1
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Shore Hardness (Shore A)	47		ISO 48-4
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Haze (78.74 mil)	15.0	%	ASTM D1003
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>



Adhesion to ABS - (A) <sup>4</sup>	14 lbf/in	VDI 2019
Adhesion to PC - (A) <sup>4</sup>	20 lbf/in	VDI 2019

### Notes

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

<sup>2</sup> Type S2, 7.9 in/min

<sup>3</sup> Method Bb, Angle (Nicked)

<sup>4</sup> Two-component injection molding

