THERMOLAST® K TF7TAA (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 [1]

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (Break)	2830	psi	ISO 37
Tensile Elongation [2] (Break)	550	%	ISO 37
Tear Strength [3]	274	lbf/in	ISO 34-1
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	67		ISO 48-4
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze (78.74 mil)	15.0	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**

Adhesion to ABS - (A) [4]	17 lbf/in	VDI 2019
Adhesion to PC - (A) [4]	20 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