THERMOLAST® K TF9ADN (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 [1]

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Spiral Flow [2, 3]	5.91	in	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [4] (Break)	1600	psi	ISO 37
Tensile Elongation [4] (Break)	600	%	ISO 37
Tear Strength [5]	228	lbf/in	ISO 34-1
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	89		ISO 48-4
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Adhesion to ABS - (A)	14	lbf/in	VDI 2019
Adhesion to PC - (A)	23	lbf/in	VDI 2019

[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)