THERMOLAST® K TF4FMS (Series: FC/AD1)

KRAIBURG TPE - *Thermoplastic Elastomer*

General Information

Product Description

The FC/AD1 series is your material solution for applications of daily life with regulatory requirement. It is characterized by its adhesion to polar thermoplastics such as PC, ABS and PETG. The natural-colored materials can be colored in many different ways.

Typical applications

- Seals
- Function and design elements
- Grip applications
- Household articles
- Razors
- Toys
- Packaging (for food and care products)
- Toothbrushes

Material advantages

- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Adhesion to PET and PETG
- Soft, velvety feel
- Halogen-free (according to IEC 61249-2-21)
- Colorable
- In-process recycling possible
- Soft touch surface
- Optimized flow properties

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21 (raw material conformity)
- EN71-3
- UL 94 HB

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability	• Good Flow • Halogen Free	• Recyclable Material • Soft
Uses	• Flexible Grips • Food Packaging • Household Goods	• Packaging • Seals • 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	1.10	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (Break)	363	psi	ISO 37
Tensile Elongation [2] (Break)	650	%	ISO 37
Tear Strength [3]	60.0	lbf/in	ISO 34-1
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	39		ISO 48-4

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Adhesion to ABS - (A) [4]	13	lbf/in	VDI 2019
Adhesion to PC - (A) [4]	12	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