

THERMOLAST® K TF3FMS (Series: FC/AD1)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The FC/AD1 Series is your material solution for applications with food contact providing excellent adhesion to polar thermoplastics such as PC, ABS and PETG.

Typical applications

Function and design elements

Grip applications

Household articles

Packaging (for food and careproducts)

Razors

Seals

Toothbrushes

Toys

Material advantages

Applications with food contact

Code of Federal Regulations, Title 21 (CFR 21) "FDA"

Easy coloring (compounds in natural colors)

EN71/3

Excellent adhesion

Excellent processing behavior

Halogen-free

Regulation (EU) No. 10/2011

General Information	
Features	Food Contact Acceptable
	Good Adhesion
	Good Colorability
	Good Processability
	Halogen Free
Uses	Food Packaging
	Household Goods
	Non-specific Food Applications
	Packaging
	Seals
	Toothbrush Handles
	Toys
Agency Ratings	EN 71-3
	EU 10/2011
	FDA Food Contact, Unspecified Rating
Appearance	Natural Color
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	34		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	2.00	MPa	ISO 37
Tensile Elongation ² (Break)	550	%	ISO 37
Tear Strength ³	10	kN/m	ISO 34-1
Additional Information	Nominal Value	Unit	Test Method
Adhesion to ABS	2.0	kN/m	Renault D41/1916
Adhesion to PC	2.0	kN/m	Renault D41/1916
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180	°C	
Middle Temperature	210	°C	
Front Temperature	240	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Pressure	20.0 to 100	MPa	
Back Pressure	2.00 to 10.0	MPa	
NOTE			
1.	Type S2, 200 mm/min		
2.	Type S2, 200 mm/min		
3.	Method Bb, Angle (Nicked)		

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