

THERMOLAST® K TF5FMA (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)	50		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	3.50	MPa	ISO 37
Tensile Elongation ² (Break)	600	%	ISO 37
Tear Strength ³	14	kN/m	ISO 34-1
Additional Information	Nominal Value	Unit	Test Method
Adhesion to ABS	3.0	kN/m	Renault D41/1916
Adhesion to PC	2.5	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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