

# THERMOLAST® K TF4ADN (Series: FC/AD1/PS)

Thermoplastic Elastomer  
KRAIBURG TPE

Message:

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

Typical applications

Function and design elements

Grip applications

Household articles

Razors

Toothbrushes

Toys

Material advantages

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

Easy coloring (compounds in natural colors)

Easy processing

Excellent adhesion

Pleasant surface feel (Soft touch)

Regulation (EU) No. 10/2011

General Information			
Features	Workability, good		
	Good coloring		
	Good adhesion		
	Compliance of Food Exposure		
	Excellent appearance		
Uses	Household goods		
	Soft handle		
	Toys		
	Toothbrush handle		
Agency Ratings	FDA Food Exposure, Not Rated		
	Europe 10/1/2011 12:00:00 AM		
Appearance	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Spiral Flow	55.0	cm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	38		ISO 7619

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Break)	3.00	MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	700	%	ISO 37
Tear Strength <sup>3</sup>	15	kN/m	ISO 34-1
Additional Information	Nominal Value	Unit	Test Method
Adhesion to ABS - (A)	2.5	kN/m	VDI 2019
Adhesion to PC - (A)	3.0	kN/m	VDI 2019
Injection	Nominal Value	Unit	
Drying Temperature	60	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	180	°C	
Middle Temperature	190	°C	
Front Temperature	200	°C	
Mold Temperature	25 - 40	°C	
Injection Pressure	20.0 - 100	MPa	
Back Pressure	2.00 - 10.0	MPa	
NOTE			
1.	Type S2, 200 mm/min		
2.	Type S2, 200 mm/min		
3.	Method B, right-angle specimen (cut)		

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#### Recommended distributors for this material

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