

THERMOLAST® K TF4THT (Series: FC/ht)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The FC/ht Series is your highly transparent material solution for applications with food contact. The series is characterized, among other things, by its excellent adhesion to PP.

Typical applications

Function and design elements

Grip applications

Household articles

Packaging (for food and careproducts)

Razors

Seals

Toothbrushes

Toys

Material advantages

Adhesion to PP

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

EN71/3

Excellent processing behavior

Excellent transparency

Regulation (EU) No. 10/2011

Smooth, non-tacky feel

Various color options and effects available (incl. transparent colors, metallic & pearlescent effect)

General Information	
Features	Food Contact Acceptable
	Good Adhesion
	Good Processability
	High Clarity
Uses	Food Packaging
	Household Goods
	Packaging
	Seals
	Toothbrush Handles
	Toys
Agency Ratings	EN 71-3
	EU 10/2011
	FDA Food Contact, Unspecified Rating
Appearance	Clear/Transparent
	Colors Available
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	38		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	4.50	MPa	ISO 37
Tensile Elongation ² (Break)	600	%	ISO 37
Tear Strength ³	9.0	kN/m	ISO 34-1
Optical	Nominal Value	Unit	Test Method
Haze (2000 μm)	11	%	ASTM D1003
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	200	°C	
Front Temperature	220	°C	
Mold Temperature	50.0 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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