

THERMOLAST® K TF0STL (Series: FC/S)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The FC/S Series consists of extremely soft materials for applications with food contact. They are available in natural-colored, translucent and highly transparent versions. The materials have a dry feel.

Typical applications

Baits

Cushioning

Fun articles

Function and design elements

Grip applications

Protectors

Toys

Material advantages

Adhesion to PP

Applications with food contact

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

Dry surface

Easy processing

EN71/3

Excellent mechanical properties at low hardness

Pleasant surface feel (Soft touch)

Regulation (EU) No. 10/2011

General Information			
Features	Food Contact Acceptable		
	Good Adhesion		
	Good Processability		
	Soft		
Uses	Non-specific Food Applications		
	Toys		
Agency Ratings	EN 71-3		
	EU 10/2011		
	FDA Food Contact, Unspecified Rating		
Appearance	Translucent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.870	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness ¹ (6.00 mm)	51		ISO 27588
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Yield)	1.50	MPa	ISO 37

Tensile Elongation ³ (Break)	800	%	ISO 37
Tear Strength ⁴	3.0	kN/m	ISO 34-1
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	140	°C	
Middle Temperature	160	°C	
Front Temperature	180	°C	
Mold Temperature	25.0 to 40.0	°C	
Injection Pressure	20.0 to 100	MPa	
Back Pressure	2.00 to 10.0	MPa	
NOTE			
1.	VLRH Scale		
2.	Type S2, 200 mm/min		
3.	Type S2, 200 mm/min		
4.	Method Bb, Angle (Nicked)		

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