

THERMOLAST® K TF5PEN (Series: FC/AD/PE)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The FC/AD/PE Series is your material solution for applications with food contact providing excellent adhesion to LDPE, LLPPE and HDPE. The series is available in natural color.

Typical applications

Grip applications

Household articles

Toothbrushes

Material advantages

Adhesion to LDPE, LLDPE &HDPE

Easy coloring (compounds in natural colors)

Halogen-free

Pleasant surface feel (Soft touch)

Recyclable

General Information			
Features	Food Contact Acceptable		
	Good Adhesion		
	Good Colorability		
	Halogen Free		
	Recyclable Material		
	Soft		
Uses	Household Goods		
	Toothbrush Handles		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	47		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	4.50	MPa	ISO 37
Tensile Elongation ² (Break)	530	%	ISO 37
Tear Strength ³	16	kN/m	ISO 34-1
Additional Information	Nominal Value	Unit	
Adhesion to HDPE ⁴	3.7 (D)	N/mm	
Adhesion to LDPE ⁵	3.3 (B/D)	N/mm	
Adhesion to LLDPE ⁶	3.5 (D)	N/mm	
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	25.0 to 40.0	°C
Injection Pressure	20.0 to 100	MPa
Back Pressure	2.00 to 10.0	MPa

NOTE

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|----|---------------------------|
| 1. | Type S2, 200 mm/min |
| 2. | Type S2, 200 mm/min |
| 3. | Method Bb, Angle (Nicked) |
| 4. | VDI 2019 |
| 5. | VDI 2019 |
| 6. | VDI 2019 |

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