

THERMOLAST® K TF5THT (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) | 47 | | ISO 7619 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ (Yield) | 5.50 | MPa | ISO 37 |
| Tensile Elongation ² (Break) | 600 | % | ISO 37 |
| Tear Strength ³ | 12 | 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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

