

THERMOLAST® K TF5FHT (Series: FC/ht)
KRAIBURG TPE - Thermoplastic Elastomer
General Information
Product Description

The FC/ht series is your highly transparent material solution for everyday life applications with regulatory requirements. The series is characterized by its PP adhesion. The highly transparent materials can be colored in many different ways.

Typical applications

- Toothbrushes
- Function and design elements
- Grip applications
- Household articles
- Razors
- Toys
- Packaging (for food and care products)

Material advantages

- Transparency
- Colorable, also in effect colors
- Low density
- In-process recycling possible
- Adhesion to PP
- Free from animal ingredients
- Halogen-free (according to IEC 61249-2-21)
- ISCC PLUS ready (mass balance approach)

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21 (raw material conformity)
- EN71-3
- Compatible for HDPE Recycling certified by Cyclos HTP
- Compatible for PP Recycling certified by Cyclos HTP

General

| | | | |
|-------------------|--|----------------------------------|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Good Adhesion • Good Colorability | • Halogen Free • Low Density | • No Animal Derived Components • Recyclable Material |
| Uses | • Flexible Grips • Food Packaging | • Household Goods • Packaging | • Toothbrush Handles • Toys |
| Agency Ratings | • EN 71-3 | • EU 10/2011 | • FDA Food Contact |
| Appearance | • Clear/Transparent | • Colors Available | |
| Processing Method | • Extrusion | • Injection Molding | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.890 | g/cm ³ | ISO 1183 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ² (Break) | 798 | psi | ISO 37 |
| Tensile Elongation ² (Break) | 600 | % | ISO 37 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 50 | | ISO 48-4 |
| Optical | Nominal Value | Unit | Test Method |
| Haze (78.74 mil) | 15.0 | % | ASTM D1003 |

