

THERMOLAST® K TF4FMS (Series: FC/AD1)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

- The FC/AD1 Series is your material solution for applications with food contact providing excellent adhesion to polar thermoplastics such as PC, ABS and PETG.
- Typical applications
 - Function and design elements
 - Grip applications
 - Household articles
 - Packaging (for food and careproducts)
 - Razors
 - Seals
 - Toothbrushes
 - Toys
 - Material advantages
 - Applications with food contact
 - Code of Federal Regulations, Title 21 (CFR 21) "FDA"
 - Easy coloring (compounds in natural colors)
 - EN71/3
 - Excellent adhesion
 - Excellent processing behavior
 - Halogen-free
 - Regulation (EU) No. 10/2011

| General Information | |
|---------------------|--------------------------------------|
| Features | Food Contact Acceptable |
| | Good Adhesion |
| | Good Colorability |
| | Good Processability |
| | Halogen Free |
| Uses | Food Packaging |
| | Household Goods |
| | Non-specific Food Applications |
| | Packaging |
| | Seals |
| | Toothbrush Handles |
| | Toys |
| Agency Ratings | EN 71-3 |
| | EU 10/2011 |
| | FDA Food Contact, Unspecified Rating |
| Appearance | Natural Color |
| Processing Method | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------------------|-------------------|------------------|
| Density | 1.10 | g/cm ³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 39 | | ISO 7619 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ (Yield) | 2.50 | MPa | ISO 37 |
| Tensile Elongation ² (Break) | 650 | % | ISO 37 |
| Tear Strength ³ | 11 | kN/m | ISO 34-1 |
| Additional Information | Nominal Value | Unit | Test Method |
| Adhesion to ABS | 3.5 | kN/m | Renault D41/1916 |
| Adhesion to PC | 5.0 | kN/m | Renault D41/1916 |
| 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 | 210 | °C | |
| Front Temperature | 240 | °C | |
| Mold Temperature | 40.0 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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