

# THERMOLAST® K TF8PEN (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 <sup>3</sup> | ISO 1183    |
| Hardness                                | Nominal Value           | Unit              | Test Method |
| Shore Hardness (Shore A)                | 77                      |                   | ISO 7619    |
| Elastomers                              | Nominal Value           | Unit              | Test Method |
| Tensile Stress <sup>1</sup> (Yield)     | 8.00                    | MPa               | ISO 37      |
| Tensile Elongation <sup>2</sup> (Break) | 580                     | %                 | ISO 37      |
| Tear Strength <sup>3</sup>              | 24                      | kN/m              | ISO 34-1    |
| Additional Information                  | Nominal Value           | Unit              |             |
| Adhesion to HDPE <sup>4</sup>           | 6.0 (D)                 | N/mm              |             |
| Adhesion to LDPE <sup>5</sup>           | 5.1 (D)                 | N/mm              |             |
| Adhesion to LLDPE <sup>6</sup>          | 6.8 (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

|    |                           |
|----|---------------------------|
| 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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### 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

