

**THERMOLAST® K TC7FRZ**

TPE

KRAIBURG TPE GmbH &amp; Co. KG

| <b>Mechanical properties</b>   | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--------------------------------|--------------|-------------|----------------------|
| <b>ISO Data</b>                |              |             |                      |
| Tensile Strength               | <b>4</b>     | MPa         | ISO 37               |
| Strain at break                | <b>600</b>   | %           | ISO 37               |
| Compression set at 70 °C, 24h  | <b>33</b>    | %           | ISO 815              |
| Compression set at 100 °C, 24h | <b>80</b>    | %           | ISO 815              |
| Tear strength                  | <b>20</b>    | kN/m        | ISO 34-1             |
| Shore A hardness               | <b>67</b>    | -           | ISO 7619-1           |

| <b>Thermal properties</b>     | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|-------------------------------|--------------|-------------|----------------------|
| <b>ISO Data</b>               |              |             |                      |
| Burning behav. at thickness h | <b>V-0</b>   | class       | IEC 60695-11-10      |
| Thickness tested              | <b>3.0</b>   | mm          | -                    |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Density                 | <b>1100</b>  | kg/m <sup>3</sup> | ISO 1183             |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>     | <b>Unit</b> | <b>Test Standard</b> |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>60 - 80</b>   | °C          | -                    |
| Pre-drying - Time                                  | <b>2 - 4</b>     | h           | -                    |
| Melt temperature                                   | <b>180 - 220</b> | °C          | -                    |
| Mold temperature                                   | <b>50 - 60</b>   | °C          | -                    |
| Zone 1   | <b>180 - 200</b> | °C          | -                    |
| Zone 2   | <b>200 - 220</b> | °C          | -                    |
| Zone 3   | <b>220 - 250</b> | °C          | -                    |
| Injection pressure                                 | <b>20 - 100</b>  | MPa         | -                    |
| Back pressure                                      | <b>2 - 10</b>    | MPa         | -                    |
| Holding pressure                                   | <b>8 - 60</b>    | MPa         | -                    |
| Maximum residence time                             | <b>10</b>        | min         | -                    |

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Delivery form**

Black

**Special Characteristics**

Flame retardant, Halogen-free

**Features**

Good Adhesion

**Applications**

Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific