

THERMOLAST® K TC5FTZ

TPE

KRAIBURG TPE GmbH & Co. KG

| Mechanical properties | Value | Unit | Test Standard |
|-------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Tensile Strength | 3.5 | MPa | ISO 37 |
| Strain at break | 600 | % | ISO 37 |
| Compression set at 70 °C, 24h | 60 | % | ISO 815 |
| Tear strength | 13.5 | kN/m | ISO 34-1 |
| Shore A hardness | 50 | - | ISO 7619-1 |

| Thermal properties | Value | Unit | Test Standard |
|---------------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Burning behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1090 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 6 | h | - |
| Processing humidity | ≤0.05 | % | - |
| Melt temperature | 180 - 220 | °C | - |
| Mold temperature | 25 - 40 | °C | - |
| Zone 1 | 170 - 190 | °C | - |
| Zone 2 | 190 - 210 | °C | - |
| Zone 3 | 210 - 220 | °C | - |
| Injection pressure | 20 - 100 | MPa | - |
| Back pressure | 2 - 10 | MPa | - |
| Holding pressure | 8 - 60 | MPa | - |
| Maximum residence time | 10 | min | - |

| Processing Recommendation Extrusion | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 6 | h | - |
| Melt temperature | 200 | °C | - |
| Zone 1 | 160 - 180 | °C | - |
| Zone 2 | 180 - 200 | °C | - |
| Zone 3 | 200 - 230 | °C | - |
| Nozzle temperature | 180 - 190 | °C | - |

Characteristics**Processing**

Injection Molding, Profile Extrusion, Other Extrusion

Delivery form

Black

Special Characteristics

Flame retardant, Halogen-free

Features

Good Adhesion

Applications

Building Construction, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific