

**Product Texts**

KRAIBURG TPE meets the railway standard DIN 45545-2 with it´s FR2 series.

<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>550</b>	%	ISO 37
Compression set at 70 °C, 24h	<b>60</b>	%	ISO 815
Tear strength	<b>16</b>	kN/m	ISO 34-1
Shore A hardness	<b>68</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 1.5 mm nom. thickn.	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1090</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>80</b>	°C	-
Pre-drying - Time	<b>6</b>	h	-
Processing humidity	<b>≤0.05</b>	%	-
Melt temperature	<b>180 - 220</b>	°C	-
Mold temperature	<b>25 - 40</b>	°C	-
Zone 1	<b>170 - 190</b>	°C	-
Zone 2	<b>190 - 210</b>	°C	-
Zone 3	<b>210 - 220</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	-

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

**Characteristics**

**Processing**  
Injection Molding, Profile Extrusion, Other Extrusion

**Features**  
Good Adhesion

**Delivery form**  
Black

**Applications**  
Building Construction, Electrical and Electronical

**Special Characteristics**  
Flame retardant, Halogen-free

**Regional Availability**  
North America, Europe, Asia Pacific