

**THERMOLAST® M TM3LFT**

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>700</b>	%	ISO 37
Compression set at 70 °C, 24h	<b>26</b>	%	ISO 815
Compression set at 100 °C, 24h	<b>41</b>	%	ISO 815
Tear strength	<b>7</b>	kN/m	ISO 34-1
Shore A hardness	<b>29</b>	-	ISO 7619-1

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>890</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>200 - 250</b>	°C	-
Mold temperature	<b>25 - 40</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

**Special Characteristics**

Translucent, Sterilizable, Ethylene Oxide (EtO) Sterilization, Steam sterilization, Gamma irradiation sterilization

**Features**

Good Adhesion, Scratch Resistant, Tribologic Grade

**Chemical Resistance**

Radiation Resistance

**Certifications**

Food contact, Food approval 10/2011, Food approval FDA 21 CFR, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved, Drug Master File, Long term supply assurance, RoHS compliant, REACH

**Applications**

Medical

**Regional Availability**

North America, Europe, Asia Pacific