

**Product Texts****DESCRIPTION**

Elastollan R 6000 is a glass fibre-reinforced TPU

**SPECIAL PROPERTIES**

very good impact strength, high stiffness combined with good strain, low thermal expansion coefficient equivalent to metal (Al), low mould shrinkage, ease of paintability

**TYPICAL APPLICATIONS**

automotive exterior parts, machine parts

**OTHER HINTS**

predrying: 3h at 110°C  
(air circulating oven or dehumidified air dryer),  
max. content of humidity before processing: 0,02%  
annealing: 20 h at 100°C in order to get optimum properties

**CHEMICAL RESISTANCE**

For detailed information on the chemical resistance of our materials refer to this [list of chemical resistance](#)

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>6400</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break	<b>115</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>7</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>84</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	<b>67</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>21</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>12</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Stress at break TPE	<b>115</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	<b>7</b>	%	ISO 527

[C]: CAMPUS

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Comparative tracking index	<b>600</b>	-	IEC 60112

[C]: CAMPUS

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Density	<b>1400</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

<b>Test specimen production</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	<b>235</b>	°C	ISO 294
Injection Molding, mold temperature	<b>60</b>	°C	ISO 294

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Other text information****Injection molding**

Barrel temperature : 230 - 240 °C

Melt temperature : 235 °C

Mold temperature: 25 - 70 °C