

**Product Texts****DESCRIPTION**

Elastollan R 3000 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**

technical parts, support of catalyst for plugs, cabinets

**OTHER HINTS**

predrying: 2-3h at 100-120°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>2800</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break	<b>80</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>10</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>120</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	<b>70</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>22</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>10</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Stress at break TPE	<b>80</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	<b>10</b>	%	ISO 527
<sup>[C]</sup> Shore D hardness	<b>73</b>	-	ISO 7619-1

[C]: CAMPUS

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>132</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	<b>175</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Burning Behav. at thickness h	<b>HB</b>	class	IEC 60695-11-10
Yellow Card available	<b>yes</b>	-	-

[C]: CAMPUS

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Dissipation factor, 100Hz	<b>360</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	<b>490</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	<b>1E11</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	<b>36</b>	kV/mm	IEC 60243-1
<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> Water absorption	<b>1</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1380</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Elastollan® R 3000**

(TPU-ARES)-GF

BASF Polyurethanes GmbH

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	<b>230</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 : 225 - 235 °C

Melt temperature : 235 °C

Mold temperature: 25 - 70 °C