

Product Texts**DESCRIPTION**

Elastollan R 1001 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, ski tips

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](#)

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	350	MPa	ISO 527
^[C] Stress at 50% strain	30	MPa	ISO 527
^[C] Strain at break	>50	%	ISO 527
^[C] Charpy impact strength, -30°C	160	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	30	kJ/m ²	ISO 179/1eA
^[C] Stress at break TPE	30	MPa	ISO 527
^[C] Strain at break TPE	65	%	ISO 527
^[C] Shore D hardness	50	-	ISO 7619-1

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1270	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	215	°C	ISO 294
Injection Molding, mold temperature	60	°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 : 200 - 220 °C

Melt temperature : 215 °C

Mold temperature: 25 - 70 °C