

Product Texts**DESCRIPTION**

Elastollan B 90 A is a polyester based TPU

SPECIAL PROPERTIES

good wear performance, good damping behavior and rebound elasticity at good flexibility at low temperature, good tensile strength

TYPICAL APPLICATIONS

sports shoe soles, hoses, roller tyres for conveyor systems and shopping trolleys, damping elements

OTHER HINTS

predrying: 2-3h at 100-110°C (air circulating oven)
or 90-100°C (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] Stress at 50% strain	5	MPa	ISO 527
^[C] Strain at break	>50	%	ISO 527
^[C] Stress at 100% elongation	7	MPa	ISO 527
^[C] Stress at 300% elongation	20	MPa	ISO 527
^[C] Stress at break TPE	55	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527
^[C] Compression set at 23 °C, 24h	25	%	ISO 815
^[C] Compression set at 70 °C, 24h	40	%	ISO 815
^[C] Tear strength	90	kN/m	ISO 34-1
^[C] Abrasion resistance	30	mm ³	ISO 4649
^[C] Shore A hardness	91	-	ISO 7619-1
^[C] Shore D hardness	40	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	-38	°C	ISO 11357-1/-2

[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	1210	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	210	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Profile Extrusion

Delivery form

Pellets

Regional Availability

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

Other text information

Injection molding

Barrel temperature : 185 - 205 °C

Melt temperature : 205 °C

Mold temperature: 25 - 40 °C

Profile extrusion

Barrel temperature : 170 - 195 °C