

Product Texts**DESCRIPTION**

Elastollan 1185 A is a polyether based TPU

SPECIAL PROPERTIES

excellent resistance to hydrolysis and good flexibility at low temperature,
resistance to microbiological attack, good wear performance,
high tensile strength, good damping behavior

TYPICAL APPLICATIONS

cable sheathing, plugs and terminations, hoses, films,
damping elements

OTHER HINTS

predrying: 2-3h at 100-110°C (air circulating oven)
or 80-90°C (dehumidified air dryer),
max. content of humidity before processing: 0,02%
annealing: 20 h at 100°C in order to get optimum properties
MFR range: in various MFR ranges provided

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	20	MPa	ISO 527
^[C] Stress at 50% strain	5	MPa	ISO 527
^[C] Strain at break	>50	%	ISO 527
^[C] Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	N	kJ/m ²	ISO 179/1eA
^[C] Tensile notched impact strength, +23°C	580	kJ/m ²	ISO 8256/1
^[C] Stress at 100% elongation	6	MPa	ISO 527
^[C] Stress at 300% elongation	10	MPa	ISO 527
^[C] Stress at break TPE	45	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	45	%	ISO 815
^[C] Tear strength	70	kN/m	ISO 34-1
^[C] Abrasion resistance	25	mm ³	ISO 4649
^[C] Shore A hardness	87	-	ISO 7619-1
^[C] Shore D hardness	36	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	-42	°C	ISO 11357-1/-2
^[C] Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Yellow Card available	yes	-	-
^[C] Oxygen index	23	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Dissipation factor, 100Hz	300	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	950	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E10	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	35	kV/mm	IEC 60243-1

Elastollan® 1185 A

(TPU-ARET)

BASF Polyurethanes GmbH

[C] Comparative tracking index	600	-	IEC 60112
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[C]: CAMPUS

Other properties	Value	Unit	Test Standard
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[C] Density	1120	kg/m ³	ISO 1183
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[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
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ISO Data

[C] Injection Molding, melt temperature	210	°C	ISO 294
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Injection Molding, mold temperature	60	°C	ISO 294
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[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Profile Extrusion, Blow Molding

Regional Availability

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

Delivery form

Pellets

Other text information**Injection molding**

Barrel temperature : 195 - 210 °C

Melt temperature : 210 °C

Mold temperature: 25 - 40 °C

Profile extrusion

Barrel temperature : 160 - 190 °C

Blow molding

Barrel temperature : 160 - 195 °C

Mold temperature : 40 - 80 °C