

Product Texts

DESCRIPTION

Elastollan 1195 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

hoses, ear tags, cable sheathing, roller tyres for conveyor systems and shopping trolleys,

OTHER HINTS

predrying: 2-3h at 90-110°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](#)

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	60	MPa	ISO 527
^[C] Stress at 50% strain	9	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	920	kJ/m ²	ISO 8256/1
^[C] Stress at 100% elongation	10	MPa	ISO 527
^[C] Stress at 300% elongation	18	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	30	%	ISO 815
^[C] Compression set at 70 °C, 24h	45	%	ISO 815
^[C] Tear strength	100	kN/m	ISO 34-1
^[C] Abrasion resistance	30	mm ³	ISO 4649
^[C] Shore A hardness	96	-	ISO 7619-1
^[C] Shore D hardness	50	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	-30	°C	ISO 11357-1/-2
^[C] Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
^[C] Oxygen index	24	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	7	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	5	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	390	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	810	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

Elastollan® 1195 A

(TPU-ARET)

BASF Polyurethanes GmbH

[C] Electric strength	37	kV/mm	IEC 60243-1
[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	1150	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
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ISO Data

[C] Injection Molding, melt temperature	220	°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 : 205 - 215 °C

Melt temperature : 215 °C

Mold temperature: 25 - 40 °C

Profile extrusion

Barrel temperature : 175 - 205 °C