

Product Texts**DESCRIPTION**

Elastollan 1175 AW is a polyether based TPU with plasticiser

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, damping elements

OTHER HINTS

predrying: 2-3h at 70-85°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	3	MPa	ISO 527
^[C] Strain at break	>50	%	ISO 527
^[C] Stress at 100% elongation	4	MPa	ISO 527
^[C] Stress at 300% elongation	8	MPa	ISO 527
^[C] Stress at break TPE	40	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527
^[C] Compression set at 23 °C, 24h	20	%	ISO 815
^[C] Compression set at 70 °C, 24h	40	%	ISO 815
^[C] Tear strength	40	kN/m	ISO 34-1
^[C] Abrasion resistance	45	mm ³	ISO 4649
^[C] Shore A hardness	75	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	-46	°C	ISO 11357-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
^[C] Oxygen index	25	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Dissipation factor, 1MHz	1100	E-4	IEC 62631-2-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1140	kg/m ³	ISO 1183

[C]: CAMPUS

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

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Profile Extrusion

Additives

Plasticizer

Delivery form

Pellets

Regional Availability

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

Other text information

Injection molding

Barrel temperature : 195 - 205 °C

Melt temperature : 205 °C

Mold temperature: 25 - 40 °C

Profile extrusion

Barrel temperature : 160 - 175 °C