

Thermoplastic Polyurethane Elastomers (TPU)

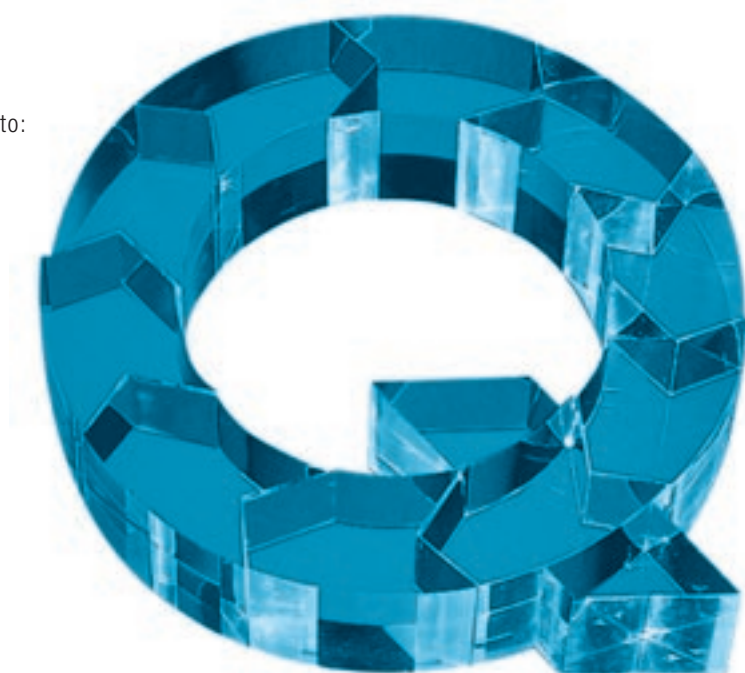
Elastollan® –
Product Range

Contents

Quality Management to DIN EN ISO 9001		Page	2
Nomenclature for Elastollan		Page	3
Packaging, Storage and Shelf live of Elastollan		Page	3
Master-batches		Page	3
Elastollan 1100 grades	Based on Polyether-Polyurethane	Pages	4 and 5
Elastollan 1200 grades	Based on Polyether-Polyurethane	Pages	6 and 7
Elastollan C grades	Based on Polyester-Polyurethane	Pages	8 and 9
Elastollan HPM grades	Based on Polyester-Polyurethane	Pages	10 and 11
Elastollan B grades	Based on Polyester-Polyurethane	Pages	12 and 13
Elastollan 600 and 800 grades	Based on Polyester-Polyurethane, transparent	Pages	14 and 15
Elastollan S grades	Based on Polyester-Polyurethane	Pages	16 and 17
Elastollan 500 grades	Based on Polyester-Polyurethane	Pages	18 and 19
Elastollan Aliphatic grades	Aliphatic Polyurethane	Pages	20 and 21
Elastollan R grades	Glass fibre re-inforced Polyurethane	Pages	22 and 23
Elastollan	flame retardant	Pages	24 and 25
Elastollan/Special products	Polyether/Polyester-Polyurethane	Pages	26 and 27

Quality Management

We are certified according to:
ISO/TS 16949
DIN EN ISO 9001
DIN EN ISO 14001



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Nomenclature for Elastollan

Elastollan 11 85 A 10 W 000

Elastollan	Grade	Hardness	Particle form	Lubricant	Additives	Additives
Elastollan is the registered trade-mark of BASF Polyurethanes GmbH for thermo-plastic Polyurethane Elastomers. The product code consists of a letter and a number combination. Elastollan A and L stand for aliphatic thermo-plastic Polyurethanes	The letter or number characterizes the basis polyol B, C, S, 5, 6, 7, 8 = Polyester 10, 11, 12 = Polyether R = glas-fibre reinforced grades LP-Laboratory product still in development SP-Special product, modified to meet customer's requirement N- based on renewable raw materials	A = Shore A D = Shore D	1 = cylindrical or lentil shaped pellets 5 = diced	0 = without lubricant 3, 5 = with lubricant	ESD = electronic sensitive devices FHF = flame retardant halogen free HPM = high performance material M = matt surface N = not stabilized U = UV stabilized P/W/WH = contains plasticiser T = approved for drinking water applications	000 = natural colour 100 bis 999 = code for included additive

Master-batches

Delivery form, Packing, Storage and Shelf-life

Elastollan Konz and Elastollan Konz V are pigments and various additive master-batches. They can be used not only to colour, but also to improve processing and to improve stability against e.g. UV radiation, as blowing agent and for modification in various property areas.

Elastollan X-Flex are additives with crosslinking properties.

Delivery form

Diced, Lentil or cylindrical shaped pellets.

Packing for all Elastollan grades excluding R grades

- Multi Layer PE bag, 25kg net
- Oktabins with PE liner bags, ca. 1 000kg net
- Big Bags, ca. 900kg net
- Tanker, ca. 20t net.

Packing for R grades

- Sealed drums with PE liner bags, 125kg net
- Oktabins with PE liner bags, ca. 1 000kg net
- Tanker, ca. 20t net.

Storage and shelf-life

Approximately six months from delivery date in original sealed containers with cool dry storage.

Elastollan 1100 grades

Thermoplastic Polyether Polyurethane Elastomers with outstanding hydrolysis resistance, low temperature flexibility and resistance to micro-organisms.

Physical Properties	Units	Test method	Elastollan 1170 A	1175 A W	1180 A	1185 A W	1185 A	1185 A M
Hardness	Shore A	DIN ISO 7619-1 (3s)	71	75	80	83	87	88
Hardness	Shore D	DIN ISO 7619-1 (3s)					36	39
Density	g/cm ³	DIN EN ISO 1183-1-A	1,08	1,14	1,11	1,16	1,12	1,11
Tensile strength	MPa	DIN 53504-S2	30	40	45	40	45	45
Elongation at break	%	DIN 53504-S2	850	700	650	700	600	600
Stress at 20% elongation	MPa	DIN 53504-S2	1,3	2	2	2,5	2,5	3,5
Stress at 100% elongation	MPa	DIN 53504-S2	2	4	4,5	6	6	7
Stress at 300% elongation	MPa	DIN 53504-S2	4,8	8	8	8	10	12
Modulus of elasticity – tensile test	MPa	DIN EN ISO 527						
Tear strength	kN/m	DIN ISO 34-1Bb	44	40	55	50	70	60
Abrasion loss	mm ³	DIN ISO 4649-A	<50	45	30	40	25	60
Compression set at room temperature, 72h	%	DIN ISO 815	24	20	25	20	25	35
Compression set at 70°C, 24h	%	DIN ISO 815	50	40	45	35	45	45
Tensile strength after storage in water at 80°C for 42 days	MPa	DIN 53504-S2		28	30	30	32	30
Elongation at break after storage in water at 80°C for 42 days	%	DIN 53504-S2		750	700	700	600	650
Notched impact strength (Charpy) +23°C	kJ/m ²	DIN EN ISO 179-1	kB	kB	kB	kB	kB	kB
Notched impact strength (Charpy) -30°C	kJ/m ²	DIN EN ISO 179-1	kB	kB	kB	kB	kB	kB
Fire behaviour		UL 94		V0/V2 ²⁾	HB	V2	HB	

¹⁾ Extrusion quality for pneumatic tubing

²⁾ according to wall section

kB = no fracture

Certain 1100 grades are available in uv-stabilized versions.

Typical applications

Cable jackets, plugs and terminations, spiral tubing, Films, ski-boot shells, ear tags, technical mouldings like mining screens, railway pads, seals.

Processability

Processable by injection moulding, extrusion and blow moulding

Process temperature (injectin moulding): 170 to 240 °C

Mould temperature: 20 to 70 °C

Processing temperature (extrusion): 160 to 220 °C.

	1185 A WM	1190 A	1195 A	1198 A ¹⁾	1154 D	1160 D	1164 D	1174 D				
	87	92	96									
	39	42	48	52	53	60	64	73				
	1,13	1,14	1,15	1,16	1,17	1,18	1,18	1,20				
	30	50	55	50	50	50	50	50				
	650	550	500	450	450	400	350	300				
	4	4,5	6	9	11	13	16	25				
	7	8,5	10	15	17	19	25	30				
	10	16	18	28	38	41	45	45				
					150	200	250	560				
	55	85	100	125	150	170	190	220				
	65	25	25	25	20	20	20	20				
	25	25	30	35	40	40	40	50				
	43	45	45	50	50	50	50	55				
	30	35	37	35	35	35	35	35				
	600	600	500	450	450	450	400	400				
	kB kB	kB kB	kB kB	kB 190	kB 18	kB 16	kB 12	kB 5				
			HB									

Please note

The stated values for individual grades are typical test results and not limiting specification values.

Quoted results are from measurements on injection moulded test platens, post tempered for 20h at 100 °C.

Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Highly transparent thermoplastic with good hydrolysis resistance, low temperature flexibility and resistance to micro-organisms

 $kB = \text{no fracture}$

Ski boot shells, ski components,
Films.

Processable by injection moulding as well as by extrusion

Process temperature (injection moulding): 215 to 240 °C

Mould temperature: 20 to 70°C

Process temperature (extrusion):
200 to 230°C.

[illegible]

77

1,2

50

350

29

33

43

808

220

40

10

Please note

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Quoted results are from measurements on injection moulded test platens, post tempered for 20h at 100°C.

Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Elastollan C grades

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties. Outstanding tensile strength and high elongation at break, good damping characteristics, a high resilience performance and very good wear resistance.

Physical Properties	Units	Test method	Elastollan C 60 AP	C 78 A	C 80 A	C 85 A	C 88 A ¹⁾
Hardness	Shore A	DIN ISO 7619-1 (3s)	60	80	82	87	88
Hardness	Shore D	DIN ISO 7619-1 (3s)				36	37
Density	g/cm ³	DIN EN ISO 1183-1-A	1,15	1,18	1,19	1,19	1,19
Tensile strength	MPa	DIN 53504-S2	38	50	50	50	50
Elongation at break	%	DIN 53504-S2	1000	650	650	650	600
Stress at 20% elongation	MPa	DIN 53504-S2	1	2	2,5	3	3,5
Stress at 100% elongation	MPa	DIN 53504-S2	2,4	4	4,5	5,5	6
Stress at 300% elongation	MPa	DIN 53504-S2	5	7,5	8,5	9,5	13
Modulus of elasticity – tensile test	MPa	DIN EN ISO 527					
Tear strength	kN/m	DIN ISO 34-1Bb	40	60	65	70	75
Abrasion loss	mm ³	DIN ISO 4649-A	50	30	30	30	30
Compression set at room temperature, 72h	%	DIN ISO 815	21	25	25	25	25
Compression set at 70°C, 24h	%	DIN ISO 815	37	35	35	35	40
Tensile strength after storage in water for 21 days at 80°C	MPa	DIN 53504-S2		35	35	38	38
Elongation at break after storage in water for 21 days at 80°C	%	DIN 53504-S2		650	650	650	650
Notched impact strength (Charpy) +23°C	kJ/m ²	DIN EN ISO 179-1		kB	kB	kB	kB
Notched impact strength (Charpy) - 30°C	kJ/m ²	DIN EN ISO 179-1		kB	kB	kB	kB
Fire behaviour		UL 94				HB	

¹⁾ Extrusion quality for round belts

²⁾ Extrusion quality for pneumatic tubing

kB = no fracture

Typical applications

Spiral tubing, pneumatic tubing, round belting, technical mouldings e.g. bushes, dust caps, seals, joints, blow moulded bellows, fan belts.

Processability

Processable by injection moulding, extrusion and blow moulding

Process temperature (injection moulding): 170 to 240 °C

Mould temperature: 20 to 70 °C

Process temperature (extrusion): 150 to 230 °C.

C 90 A	C 95 A	C 98 A ²⁾	C 59 D	C 60 D	C 64 D	C 74 D			
93	96								
41	47	52	57	60	63	73			
1,20	1,21	1,22	1,23	1,23	1,24	1,25			
55	55	50	50	50	45	45			
550	550	550	500	450	400	350			
7	8	11	12	16	17	28			
9	11	14	17	20	24	30			
15	22	26	30	35	35	35			
		160	250	330	390	730			
95	120	130	160	180	200	240			
25	25	30	20	20	20	20			
25	30	30	30	40	40	40			
40	45	50	50	50	55	60			
40	40	40	43	43	43	45			
550	500	550	480	450	420	380			
kB kB	kB kB	kB 25	kB 12	kB 8	kB 7	120 4			
	HB	HB	HB			HB			

Please note

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Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Elastollan HPM grades

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, very good damping and resilience performance, heat resistance and improved cycle times.

Physical Properties	Units	Test method	Elastollan C 60 A HPM	C 65 A HPM	C 70 A HPM	C 75 A HPM
Hardness	Shore A	DIN ISO 7619-1 (3s)	63	67	71	75
Hardness	Shore D	DIN ISO 7619-1 (3s)				
Density	g/cm ³	DIN EN ISO 1183-1-A	1,17	1,18	1,18	1,18
Tensile strength	MPa	DIN 53504-S2	35	37	40	40
Elongation at break	%	DIN 53504-S2	1000	950	900	900
Stress at 20% elongation	MPa	DIN 53504-S2	0,85	1,5	1,5	2
Stress at 100% elongation	MPa	DIN 53504-S2	1,5	2,0	2,5	3,5
Stress at 300% elongation	MPa	DIN 53504-S2	2	4,0	4,5	6
Tear strength	kN/m	DIN ISO 34-1Bb	40	44	45	50
Abrasion loss	mm ³	DIN ISO 4649-A	55	55	50	50
Compression set at room temperature, 72h	%	DIN ISO 815	25	25	25	25
Compression set at 70 °C, 24h	%	DIN ISO 815	43	37	35	35
Compression set at 100 °C, 24h	%	DIN ISO 815	60	55	50	50
Tensile strength after storage in water for 21 days at 80 °C	MPa	DIN 53504-S2	20	25	30	35
Elongation at break after storage in water for 21 days at 80 °C	%	DIN 53504-S2	1100	900	850	800
Notched impact strength (Charpy) +23 °C	kJ/m ²	DIN EN ISO 179-1	kB	kB	kB	kB
Notched impact strength (Charpy) - 30 °C	kJ/m ²	DIN EN ISO 179-1	kB	kB	kB	kB
Vicat-softening temperature A 120 °C/h	°C	DIN EN ISO 306	70	80	90	100

kB = no fracture

Typical applications

(Automotive)
e.g. sealings, stop dampers,
cable jackets.

Processability

Processable by injection moulding,
extrusion and blow moulding

Process temperature (injection
moulding): 190 to 220 °C

Mould temperature: 20 to 50 °C

Process temperature (extrusion):
180 to 230 °C.

C 85 A HPM	785 A HPM	754 D HPM						
85	85							
		55						
1,20	1,18	1,24						
45	45	35						
750	700	450						
3,5	3,5	15						
6,0	6	20						
11	11	40						
70	70	160						
40	40	20						
20	20	25						
30	30	35						
45	45	45						
35	40	30						
800	750	550						
kB	kB	n. b.						
kB	kB	n. b.						
120	120	155						

Please note

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Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Elastollan B grades

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good tensile strength, good damping and resilience performance and superior low temperature flexibility.

Physical Properties	Units	Test method	Elastollan B 60 AWH TSG	B 60 A ESD ^{1),2)}	B 60 A ESD M ¹⁾	B 80 A
Hardness	Shore A	DIN ISO 7619-1 (3s)	60	63	63	82
Hardness	Shore D	DIN ISO 7619-1 (3s)				
Density	g/cm ³	DIN EN ISO 1183-1-A	1,18	1,17	1,17	1,19
Tensile strength	MPa	DIN 53504-S2	25	30	30	50
Elongation at break	%	DIN 53504-S2	800	800	800	600
Stress at 20% elongation	MPa	DIN 53504-S2	1	1	1	2
Stress at 100% elongation	MPa	DIN 53504-S2	2,5	2,5	2,5	5
Stress at 300% elongation	MPa	DIN 53504-S2	6,5	6,5	6,5	14,5
Modulus of elasticity – tensile test	MPa	DIN EN ISO 527				
Tear strength	kN/m	DIN ISO 34-1Bb	40	50	50	85
Abrasion loss	mm ³	DIN ISO 4649-A	100	60	60	35
Compression set at room temperature, 72h	%	DIN ISO 815	25	20	20	20
Compression set at 70°C, 24h	%	DIN ISO 815	40	30	30	30
Tensile strength after storage in water at 80°C for 21 days	MPa	DIN 53504-S2		25	25	40
Elongation at break after storage in water at 80°C for 21 days	%	DIN 53504-S2		900	900	600
Notched impact strength (Charpy) +23°C	kJ/m ²	DIN EN ISO 179-1	kB	kB	kB	kB
Notched impact strength (Charpy) - 30°C	kJ/m ²	DIN EN ISO 179-1	kB	kB	kB	kB
Specific volume resistivity	Ohm x cm	IEC60093		5x10 ⁷	5x10 ⁷	

Certain UV stabilised B grades are available on request

1) for safety shoes

2) transparent

Typical applications

Sport-shoe soles and accessories, Skiboot shells, technical mouldings, e.g. seals, castor tyres, tubing.

Processability

Processable by injection moulding, extrusion and blow moulding

Process temperature (injection moulding): 190 to 220 °C

Mould temperature: 20 to 50 °C

Process temperature (extrusion): 180 to 230 °C.

B 85 A	B 90 A	B 95 A	B 98 A	B 60 D	B 64 D				
83	91	96							
	42	48	50	60	64				
1,20	1,21	1,22	1,22	1,23	1,24				
55	55	55	55	55	55				
600	550	550	500	500	450				
2	4	7	8	13	17				
4	7	10	12	16	19				
15	20	22	30	30	35				
			140	240	320				
75	90	100	130	150	180				
35	30	30	25	25	25				
25	25	30	35	35	35				
35	40	40	45	45	50				
40	40	40	40	40	40				
600	550	500	500	450	400				
kB kB	kB kB	kB 200	kB 18	kB 10	kB 8				

Please note

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Quoted results are from measurements on injection moulded test platens, post tempered for 20h at 100 °C.

Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Transparent, Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good damping and resilience performance.

Materials in the 600 series are available with UV stabilisation

Typical applications

Decorative parts and damping elements
for the sport shoe industry, Ski tips,
tubes and Films.

Processability

Processable by injection moulding,
extrusion and blow moulding

Process temperature (injection moulding): 175 to 230 °C

Mould temperature: 20 to 50 °C

Process temperature (extrusion):
175 to 220°C.

885 AN	890 AN								
87	93								
1,21	1,22								
45	45								
600	480								
	5,7								
	10								
	22,5								
85	110								
35	45								
	32								
	43								
	kB 200								

Please note

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Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Elastollan S grades

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good damping and resilience performance and excellent tear strength.

Physical Properties	Units	Test method	Elastollan S 60 AP	S 70 A	S 80 A	S 85 A
Hardness	Shore A	DIN ISO 7619-1 (3s)	63	70	81	85
Hardness	Shore D	DIN ISO 7619-1 (3s)				
Density	g/cm ³	DIN EN ISO 1183-1-A	1,19	1,22	1,22	1,23
Tensile strength	MPa	DIN 53504-S2	35	34	50	55
Elongation at break	%	DIN 53504-S2	750	720	750	650
Stress at 20% elongation	MPa	DIN 53504-S2	1	1	2	2
Stress at 100% elongation	MPa	DIN 53504-S2	3	3	4	5
Stress at 300% elongation	MPa	DIN 53504-S2	6,5	5	8	8
Modulus of elasticity – tensile test	MPa	DIN EN ISO 527				
Tear strength	kN/m	DIN ISO 34-1Bb	45	55	60	70
Abrasion loss	mm ³	DIN ISO 4649-A	35	42	40	35
Compression set at room temperature, 72h	%	DIN ISO 815			25	25
Compression set at 70 °C, 24h	%	DIN ISO 815			35	35
Notched impact strength (Charpy) +23°C	kJ/m ²	DIN EN ISO 179-1			kB	kB
Notched impact strength (Charpy) - 30°C	kJ/m ²	DIN EN ISO 179-1			kB	kB
Fire behaviour		UL 94				

kB = no fracture

Typical applications

Shoe soles, top pieces, tubes, technical parts e.g. castor tyres.

Processability

Processable by injection moulding, extrusion and blow moulding

Process temperature (injection moulding): 175 to 240 °C

Mould temperature: 20 to 70 °C

Process temperature (extrusion): 175 to 220 °C.

S 90 A	S 95 A	S 98 A	S 60 D	S 64 D					
93	96								
41	48	55	60	64					
1,24	1,24	1,25	1,25	1,26					
55	50	45	45	45					
600	550	500	500	450					
6	8	13	15	22					
9	11	16	18	23					
13	20	23	34	38					
		200	250	410					
95	120	150	170	200					
30	30	25	25	25					
25	25	30	40	45					
45	45	45	50	55					
kB kB	kB 14	kB 13	kB 4	140 4					
HB									

Please note

The stated values for individual grades are typical test results and not limiting specification values.

Quoted results are from measurements on injection moulded test platens, post tempered for 20h at 100 °C.

Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties and in particular, good abrasion resistance.

[illegible]

Typical applications

Shoes, parts subject to regular wear and tear, castor tyres and films.

Processability

Processable by injection moulding, and extrusion

Process temperature (injection moulding): 175 to 230 °C

Mould temperature: 20 to 70 °C

Process temperature (extrusion):
175 to 220°C.

Aliphatic, thermoplastic Polyurethane with excellent colour fastness, good flow characteristics, detailed reproduction of surface structures, resistance to hydrolysis and low fogging values.

Applications in the automotive interior, e.g. inner door handles, instrument panels, cover centre consoles, lever wheels, slider covers, tubes, films.

Processable by injection moulding, extrusion and slush moulding

Process temperature (injection moulding): 190 to 235 °C

Process temperature (extrusion):
180 to 230 °C

Mould temperature: 20 to 60°C.

[illegible]

Elastollan Typreihe R

Glass fibre reinforced thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding impact strength, high stiffness whilst maintaining good elongation, low coefficient of expansion similar to Aluminium, low shrinkage, good paintability.

Physical Properties	Units	Test method	Elastollan R 1001	R 1000	R 2000	R 3000
Modulus of elasticity – tensile test	MPa	DIN EN ISO 527	350	1000	2000	2800
Density	g/cm ³	DIN EN ISO 1183-1-A	1,27	1,36	1,37	1,38
Hardness	Shore D	DIN ISO 7619-1 (3s)	50	60	67	73
Glass-fibre content	%		10	20	20	20
Tensile strength (test specimen type 1A) strain rate at 50mm/min	MPa	DIN EN ISO 527	30	50	65	80
Elongation at break (test specimen type 1A) strain rate at 50mm/min	%	DIN EN ISO 527	65	40	25	10
Impact strength (Charpy) +23°C Impact strength (Charpy) - 30°C	kJ/m ² kJ/m ²	DIN EN ISO 179-1 DIN EN ISO 179-1	kB* 160	kB* 130	140 110	120 70
Notched impact strength (Charpy) +23°C Notched impact strength (Charpy) - 30°C	kJ/m ² kJ/m ²	DIN EN ISO 179-1 DIN EN ISO 179-1	70 30	70 20	50 10	30 10
Deflection temperature	°C	DIN EN ISO 75-2/A	65	90	115	120
Deflection temperature	°C	DIN EN ISO 75-2/B	125	120	138	155
Coefficient of linear expansion between 23 °C and 80 °C	10 ⁻⁶ · K ⁻¹	DIN 53752-A	28	20	20	20
Colour			natural	natural	natural	natural
Fire behaviour		UL 94				HB

Typical applications

Automotive body and panels and structural door trim parts, under body sealants, technical mouldings e.g. plugs, ski tips.

Processability

Processable by injection moulding

Process temperature (injection moulding): 225 to 245 °C

Process temperature: 50 to 70 °C.

[illegible]

Please note

Quoted results are from measurements on injection moulded test platens, post tempered for 20h at 100°C.

Elastollan/flame retardant grades

Thermoplastic Polyether Polyurethane special products,
halogenfree flame retardant.

Physical Properties	Units	Test method	Elastollan 1177 A FHF	1185 A FHF	1190 A FHF	1191 A FHF
Hardness	Shore A	DIN ISO 7619-1 (3s)	77	89	90	91
Hardness	Shore D	DIN ISO 7619-1 (3s)		37		
Density	g/cm ³	DIN EN ISO 1183-1-A	1,2	1,23	1,25	1,26
Tensile strength	MPa	DIN 53504-S2	22	35	25	24
Elongation at break	%	DIN 53504-S2	800	600	550	550
Stress at 20% elongation	MPa	DIN 53504-S2	2	3,5	4,8	4,8
Stress at 100% elongation	MPa	DIN 53504-S2	3	8	8,4	8,5
Stress at 300% elongation	MPa	DIN 53504-S2	5	13	10,5	11,6
Modulus of elasticity – tensile test	MPa	DIN EN ISO 527				
Tear resitance	kN/m	DIN ISO 34-1Bb	53	60	60	60
Abrasion loss	mm ³	DIN ISO 4649-A	75	35	30	40
Compression set at room temperature, 72h	%	DIN EN ISO 815		25	26	24
Compression set at 70°C, 24h	%	DIN EN ISO 815		45	43	43
Notched impact strength (Charpy) +23°C	kJ/m ²	DIN EN ISO 179-1		kB	kB	
Notched impact strength (Charpy) -30°C	kJ/m ²	DIN EN ISO 179-1		120	46	
Tensile strength after storage in water at 80 °C for 42 days	MPa	DIN 53504-S2		20	15	
Elongation at break after storage in water at 80 °C for 42 days	%	DIN 53504-S2		600	640	
Fire behaviour		UL 94		V0	V0	

¹⁾ according to wall section

Typical applications

Cable jackets, Films

Processability

Processable by extrusion

Process temperature: 175 to 220 °C.

1147 D FHF	1154 D FHF	1185 A HFFR							
94		86							
48	58								
1,29	1,27	1,42							
13	30	20							
400	400	580							
7	13	3,6							
9	19	6							
10	33	7,8							
	160								
60	110	55							
60	30								
38	30								
50	45								
kB 21	50 3								
7	20	12							
270	400	750							
	V0/V2 ¹⁾								

Please note

The stated values for individual grades are typical test results and not limiting specification values.

Quoted results are from measurements on injection moulded test platens, post tempered for 20h at 100 °C.

Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Thermoplastic Polyether and Polyester Polyurethane Special products with excellent mechanical properties, outstanding wear resistance, good damping and resilience performance and excellent tear strength.

1) Suitable for foaming

2) Available as ESD-version

 $kB = \text{no fracture}$

Application specific formulations.

Processable by injection moulding and extrusion

Process temperature (injection moulding): 175 to 240 °C

Mould temperature: 20 to 70 °C

Process temperature (extrusion):
175 to 220 °C.

[illegible]

Please note

The stated values for individual grades are typical test results and not limiting specification values.

Quoted results are from measurements on injection moulded test platens, post tempered for 20h at 100°C.

Specialist application areas

Please contact our technical department for further regulatory information and approvals in the case of food contact, drinking water or medical applications.

Competence in Polyurethanes

With top quality products, a reputation for good customer service and continuous progress and development, Elastollan has secured a firm position in numerous markets.

We want to share our know how and experience to contribute to your own success: The versatile Elastollan is the ideal material to fulfill your requirements.

For further information, the following detailed brochures are available on request:

- Thermoplastic Polyurethane Elastomers: Elastollan
- Elastollan – Material properties
- Elastollan – Processing Recommendations
hinweise
- Elastollan – Electrical Properties
- Elastollan – Chemical Resistance

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