

Elastollan® B Series

Thermoplastic polyester polyurethane elastomer

- Very good mechanical properties
- Good cold flexibility
- Good wear resistance

Property	Unit of Measurement	Test Procedure	B 80 A 11	B 85 A 11	B 90 A 15	B 95 A 15	B 98 A 15	B 60 D 15	B 64 D 11
Hardness	Shore A	DIN ISO 7619-1 (3s)	82	83	91	96			
Hardness	Shore D	DIN ISO 7619-1 (3s)			42	48	50	60	64
Density	g/cm³	DIN EN ISO 1183-1-A	1.19	1.2	1.21	1.22	1.22	1.23	1.24
Tensile strength	MPa	DIN 53504-S2	50	55	55	55	55	55	55
Elongation at break	%	DIN 53504-S2	600	600	550	550	500	500	450
Stress at 20 % elongation	MPa	DIN 53504-S2	2	2	4	7	8	13	17
Stress at 100 % elongation	MPa	DIN 53504-S2	5	4	7	10	12	16	19
Stress at 300 % elongation	MPa	DIN 53504-S2	15	15	20	22	30	30	35
E-modulus from tensile test	MPa	DIN EN ISO 527					140	240	320
Tear strength	kN/m	DIN ISO 34-1.B(b)	85	75	90	100	130	150	180
Abrasion	mm³	DIN ISO 4649-A	35	35	30	30	25	25	25
Compression set at 23 °C / 72 hours	%	DIN ISO 815	20	25	25	30	35	35	35
Compression set at 70 °C / 24 hours	%	DIN ISO 815	30	35	40	40	45	45	50
Tensile strength after storage in water at 80 °C for 21 days	MPa	DIN 53504-S2	40	40	40	40	40	40	40
Elongation at break after storage in water at 80 °C for 21 days	%	DIN 53504-S2	600	600	550	500	500	450	400
Notched impact strength (Charpy) +23 °C	kJ/m²	DIN EN ISO 179-1	nb	nb	nb	nb	nb	nb	nb
Notched impact strength (Charpy) -30 °C	kJ/m²		nb	nb	nb	200	18	10	8

For more detailed information, please refer to the product information and processing guidance.