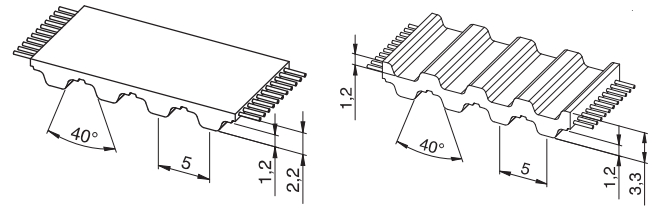


BELT CHARACTERISTICS

- Polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 5 mm
- Ideal for drives where high belt flexibility is requested
- Widely used for conveying, linear drive and light power transmission applications
- Double sided tooth available (on request for special cords)



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
LENGTH TOLERANCE: $\pm 0,5$ [mm/m]
THICKNESS TOLERANCE: $\pm 0,15$ [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [mm]		10	16	25	32	50	75	100
Allowable tensile load	F_{Tzul} [N]*	320	540	900	1150	1860	2820	3780
Breaking load	F_{Br} [N]	1250	2125	3500	4500	7250	11000	14750
Specific spring rate	C_{spez} [N]	80000	135000	225000	287500	465000	705000	945000
Weight	[kg/m]	0,021	0,034	0,053	0,067	0,105	0,158	0,210

Other widths are available on request

Specialties

Belt width b [mm]		10	16	25	32	50	75	100	150
ARAMID CORD	F_{Tzul} [N]*	700	1190	1960	2520	4060	6160	8260	-
	F_{Br} [N]	2800	4760	7840	10080	16240	24640	33040	-
HFE High Flexibility	F_{Tzul} [N]*	360	610	1010	1295	2090	3170	4250	-
	F_{Br} [N]	1500	2550	4200	5400	8700	13200	17700	-
HPL High Performance	F_{Tzul} [N]	920	1610	2645	3450	5520	8395	11270	16905
	F_{Br} [N]	3360	5880	9660	12600	20160	30660	41160	61740

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	24,70	24,07	23,53	23,05	22,64	22,28	20,90	19,89	19,10	18,45	17,91	17,44	17,02	16,65	16,32	16,01

rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	15,73	15,47	15,22	15,13	15,00	14,78	14,58	14,39	14,21	14,03	13,71	13,42	13,14	12,89	12,65	12,43

rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
F_{Uspez} [N/cm]	12,22	12,03	11,84	11,66	11,25	10,88	10,55	10,24	9,96	9,70	9,46	9,23	9,01	8,81	8,62	8,44

Flexibility

Minimum pulley number of teeth and minimum idler diameter	Drive without reverse bending		Drive with reverse bending	
	z_{min}	idler d_{min}	z_{min}	idler d_{min}
STANDARD	10	30 mm	15	30 mm
ARAMID	10	30 mm	15	30 mm
HFE	10	30 mm	12	30 mm
HPL	24	60 mm	38	60 mm

Elatech® V Joined informations

Allowable tensile load of joined belt is 50% of M - open end [*]