



BELT CHARACTERISTICS

- Polyurethane timing belt with tooth profile according to UNI/ISO 5296 with steel tension cords
- Imperial pitch $2/25'' = 2,032$ mm
- Allow to use small diameter pulley
- Mainly used in applications where inch pitch is an advantage (USA / UK)
- Transparent (natural) PU colour

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
 LENGTH TOLERANCE: $\pm 0,8$ [mm/m]
 THICKNESS TOLERANCE: $\pm 0,1$ [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [inch]/[mm]		0,25 / 6,35	0,50 / 12,7	1,00 / 25,4	2,00 / 50,8	4,00 / 101,6
Allowable tensile load	F_{Tzul} [N]*	220	450	900	1790	3580
Breaking load	F_{Br} [N]	875	1750	3500	7000	14000
Specific spring rate	C_{spez} [N]	55000	112500	225000	447500	895000
Weight	[kg/m]	0,014	0,025	0,05	0,095	0,19

Other widths are available on request

Specialties

Belt width b [mm]		0,25 / 6,35	0,50 / 12,7	1,00 / 25,4	2,00 / 50,8	4,00 / 101,6
HFE High Flexibility	F_{Tzul} [N]*	250	505	1010	2015	4030
	F_{Br} [N]	1050	2100	4200	8400	16800

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	7,58	7,31	7,09	6,92	6,78	6,67	6,15	5,83	5,59	5,40	5,24	5,11	4,99	4,88	4,79	4,70

rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	4,62	4,55	4,48	4,46	4,42	4,36	4,31	4,25	4,21	4,16	4,07	3,99	3,92	3,85	3,78	3,72

rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
F_{Uspez} [N/cm]	3,67	3,61	3,56	3,52	3,41	3,31	3,22	3,14	3,06	2,99	2,93	2,86	2,81	2,75	2,70	2,65

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	12	20 mm	15	25 mm
HFE	12	15 mm	15	20 mm

Elatech® V Joined informations

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