



BELT CHARACTERISTICS

- Polyurethane timing belt with tooth profile according to UNI/ISO 5296 with steel tension cords
- Imperial pitch 3/8" = 9,525 mm
- Allow to use small diameter pulley
- Mainly used in applications where inch pitch is an advantage (USA / UK)
- 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: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [inch]/[mm]		0,50 / 12,7	0,75 / 19,1	1,00 / 25,4	1,50 / 38,1	2,00 / 50,8	3,00 / 76,2	4,00 / 101,6
Allowable tensile load	F_{Tzul} [N]*	1270	1960	2760	4260	5640	8510	11390
Breaking load	F_{Br} [N]	4620	7140	10080	15540	20580	31080	41580
Specific spring rate	C_{spez} [N]	317500	490000	690000	1065000	1410000	2127500	2847500
Weight	[kg/m]	0,049	0,073	0,098	0,146	0,195	0,293	0,39

Other widths are available on request

Specialties

Belt width b [inch]/[mm]		0,50 / 12,7	0,75 / 19,1	1,00 / 25,4	1,50 / 38,1	2,00 / 50,8	3,00 / 76,2	4,00 / 101,6
ARAMID CORD	F_{Tzul} [N]*	1210	1870	2640	4070	5390	8140	10890
	F_{Br} [N]	4950	7650	10800	16650	22050	33300	44550
STAINLESS STEEL	F_{Tzul} [N]*	830	1280	1800	2780	3680	-	-
	F_{Br} [N]	3300	5100	7200	11100	14700	-	-

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	38,60	37,42	36,40	35,51	34,74	34,07	31,59	29,79	28,39	27,25	26,28	25,44	24,70	24,04	23,44	22,89

rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	22,38	21,91	21,48	21,31	21,07	20,69	20,33	19,98	19,66	19,35	18,77	18,24	17,76	17,30	16,88	16,48

rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
F_{Uspez} [N/cm]	16,10	15,75	15,41	15,09	14,36	13,70	13,10	12,55	12,05	11,58	11,14	10,73	10,35	9,98	9,64	9,31

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	15	60 mm	20	60 mm
ARAMID	15	60 mm	20	60 mm
STAINLESS	18	65 mm	20	65 mm

Elatech® V Joined informations

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