



BELT CHARACTERISTICS

- Polyurethane timing belt with round tooth profile and high tensile load tension cords.
- Tooth profile according to ISO 13050
- Metric pitch 14 mm
- The round tooth profile allows a uniform load distribution that guarantees high performances, high transmissible torque and precise tooth engagement
- Widely used in linear positioning, heavy power transmission applications
- Double sided tooth available (on request for special cords)

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]
 LENGTH TOLERANCE: $\pm 0,5$ [mm/m]
 THICKNESS TOLERANCE: $\pm 0,4$ [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [mm]		25	40	55	85	115	150
Allowable tensile load	F_{Tzul} [N]*	5280	9120	12480	19680	26880	35520
Breaking load	F_{Br} [N]	19250	33250	45500	71750	98000	129500
Specific spring rate	C_{spez} [N]	1320000	2280000	3120000	4920000	6720000	8880000
Weight	[kg/m]	0,28	0,44	0,61	0,94	1,25	1,68

Other widths are available on request

Specialties

Belt width b [mm]		25	40	55	85	115	150
ARAMID CORD	F_{Tzul} [N]*	2420	4180	5720	9020	12320	16280
	F_{Br} [N]	11000	19000	26000	41000	56000	74000

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	130,00	127,69	125,56	123,60	121,78	120,11	109,77	104,29	99,19	94,65	90,64	87,04	83,80	80,85	78,14	75,63
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	73,31	71,14	69,11	68,33	67,19	65,38	63,67	62,04	60,49	59,01	56,23	53,68	51,30	49,09	47,01	45,06
rpm	3400	3600	3800	4000	-	-	-	-	-	-	-	-	-	-	-	-
F_{Uspez} [N/cm]	43,22	41,48	39,82	38,24	-	-	-	-	-	-	-	-	-	-	-	-

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	28	120 mm	28	180 mm
ARAMID	28	120 mm	28	180 mm

Elatech® V Joined informations

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