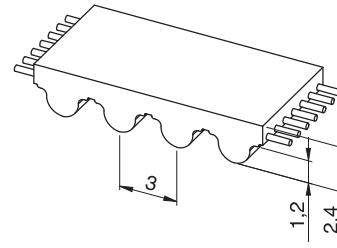


### BELT CHARACTERISTICS

- Polyurethane timing belt with round tooth profile and high tensile load tension cords.
- Tooth profile according to ISO 13050
- Metric pitch 3 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, light power transmission applications



#### STANDARD TOLERANCES

- WIDTH TOLERANCE: ±0,5 [mm]
- LENGTH TOLERANCE: ±0,5 [mm/m]
- THICKNESS TOLERANCE: ±0,2 [mm]

### TECHNICAL DATA

#### Standard steel cord

Belt width b [mm]		10	15	25	50	100
Allowable tensile load	$F_{Tzul}$ [N]*	320	510	900	1860	3780
Breaking load	$F_{Br}$ [N]	1250	2000	3500	7250	14750
Specific spring rate	$C_{spez}$ [N]	80000	127500	225000	465000	945000
Weight	[kg/m]	0,02	0,03	0,06	0,12	0,24

Other widths are available on request

#### Specialties

Belt width b [mm]		10	15	25	50	100
HFE High Flexibility	$F_{Tzul}$ [N]*	360	575	1010	2090	4250
	$F_{Br}$ [N]	1500	2400	4200	8700	17700

#### Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
$F_{Uspez}$ [N/cm]	25,20	24,60	24,06	23,57	23,12	22,72	21,22	20,31	19,75	19,14	18,50	17,88	17,30	16,75	16,24	15,75
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
$F_{Uspez}$ [N/cm]	15,29	14,86	14,45	14,29	14,06	13,69	13,33	12,99	12,67	12,36	11,77	11,22	10,71	10,24	9,79	9,36
rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
$F_{Uspez}$ [N/cm]	8,96	8,57	8,21	7,86	7,05	6,32	5,66	5,04	4,47	3,94	3,44	2,98	2,54	2,12	1,72	1,35

#### 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	20	30 mm	20	30 mm
HFE	15	20 mm	20	20 mm

**Elatech® V Joined informations**  
Allowable tensile load of joined belt is 50% of M - open end [\*]