

# Technical Data Sheet

## optibelt ALPHA LINEAR / V F3 - ST

PU Flat Belt, Optionally with Fabric PAZ,  
Open-Ended / Endless Joined

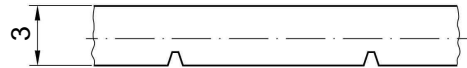


### Dimensions, Tolerances

Profile:	F3
Total thickness:	3.0 mm
Width tolerance:	±0.5 mm
Thickness tolerance:	±0.2 mm

### Construction

Polyurethane:	Thermoplastic, 92 Shore A, white
Tension cord:	Steel, Ø 1.2 mm
Fabric, optional:	Polyamide, tooth side (PAZ), green

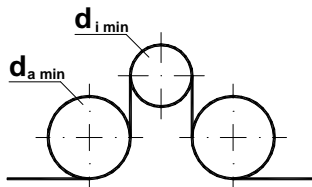


### Cord tensile force, minimum belt length, belt weight

Belt width <sup>1</sup> b [mm]	15	25	30	40	50	75	100
$F_{Br}$ [N], ALPHA LINEAR	10360	19000	22480	32840	43240	67440	89960
$F_{zul}$ [N] <sup>2</sup> , ALPHA LINEAR, $\epsilon_{zul}=0.51\%$	2590	4750	5620	8210	10810	16860	22490
$F_{zul}$ [N] <sup>2</sup> , ALPHA V	1295	2375	2810	4105	5405	8430	11245
Minimum length ALPHA V [mm]	-	700	-	-	900	900	900
Weight per meter [kg/m]	0.090	0.150	0.180	0.240	0.300	0.450	0.600

<sup>1</sup> Smaller and intermediate widths possible <sup>2</sup> Allowable tensile force  $F_{zul} = 25\% / 12.5\%$  (ALPHA LINEAR / V) of cord breaking strength  $F_{Br}$   $C_{spez} = F_{zul} / \epsilon_{zul}$

### Inside and outside idlers



Minimum diameter of a plane inside idler:  $d_{i \min} = 100 \text{ mm}$

Minimum diameter of a plane outside idler:  $d_{a \min} = 150 \text{ mm}$