

# Technical Data Sheet

## optibelt ALPHA LINEAR F4.5 - ST

PU Flat Belt, Optionally with Fabric PAR, Open-Ended



### Dimensions, Tolerances

Profile: F4.5  
 Total thickness: 4.5 mm  
 Width tolerance:  $\pm 0.5$  mm  
 Thickness tolerance:  $\pm 0.3$  mm

### Construction

Polyurethane: Thermoplastic, 92 Shore A, black  
 Tension cord: Steel,  $\varnothing$  2.5 mm  
 Fabric, optional: Polyamide, back (PAR), black

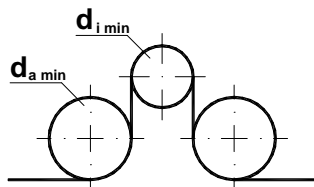


### Cord tensile force, minimum belt length, belt weight

| Belt width <sup>1</sup> b [mm]                   | 30    | 40    | 50    | 60     | 85     | 100    |
|--|-------|-------|-------|--------|--------|--------|
| F <sub>Br</sub> [N], ALPHA LINEAR                | 49000 | 70000 | 91000 | 112000 | 161000 | 196000 |
| F <sub>zul</sub> [N] <sup>2</sup> , ALPHA LINEAR | 12250 | 17500 | 22750 | 28000  | 40250  | 49000  |
| Weight per metre [kg/m]                          | 0.342 | 0.456 | 0.570 | 0.684  | 0.969  | 1.140  |

<sup>1</sup> Smaller and intermediate widths possible    <sup>2</sup> Allowable tensile force F<sub>zul</sub> = 25 % (ALPHA LINEAR) of cord breaking strength F<sub>Br</sub>

### Inside and outside idlers



Minimum diameter of a plane inside idler :  $d_{i \min} = 180$  mm

Minimum diameter of a plane outside idler :  $d_{a \min} = 225$  mm