# Technical Data Sheet optibelt HRR PU Hollow Round Belt, Open-Ended / Endless Joined



## **Dimensions, Tolerances**

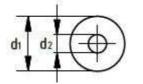
 $\begin{array}{l} \mbox{Diameter } d_1 \mbox{ [mm]: } 4.8 \/ \ 6.3 \/ \ 8.0 \/ \ 9.5 \\ \mbox{Diameter } d_2 \mbox{ [mm]: } 1.8 \/ \ 2.5 \/ \ 3.2 \/ \ 3.8 \\ \end{array}$ 

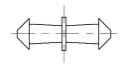
#### **Diameter Tolerances:**

± 0.2mm

## Construction

Polyurethane: Thermoplastic, 75 Shore A, red smooth Connector: Brass





Belt elongation, tension, length and weight				
Diameter d <sub>1</sub> / d <sub>2</sub> [mm]	4.8 / 1.8	6.3 / 2.5	8.0 / 3.2	9.5 / 3.8
Belt tension [N] at 3% elongation, tension 1.09 N/mm <sup>2</sup>	19	34	55	77
Belt tension [N] at 6% elongation, tension 1.83 N/mm <sup>2</sup>	32	57	92	131
Belt tension [N] at 8% elongation, tension 2.15 N/mm <sup>2</sup>	37	67	108	153
Recommended pre-tension [%]	6-8	6-8	6-8	6-8
Minimum pulley diameter dmin [mm]	30	45	50	65
Weight per metre [g/m]	18	32	51	72
Roll length on a reel [m]	200	100	100	100

#### **Elongation** Tension

3 % Elongation	1.09 N/mm <sup>2</sup>
6 % Elongation	1.83 N/mm <sup>2</sup>
8 % Elongation	2.15 N/mm <sup>2</sup>

### Belt speed and temperature

Maximum speed vmax:10 m/sTemperature-30°C bis +60°C

Coefficient of friction	HRR smooth	Calculation of assembling length L
Polished steel:	0.90	L = L <sub>nom</sub> – pre-load [mm]
Aluminium:	0.80	Nominal length L <sub>nom</sub> [mm]
Polyethylene:	0.40	Selected pre-load [%]