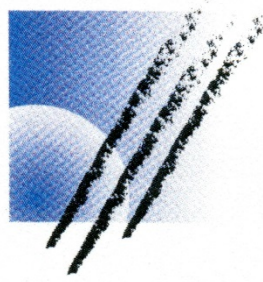


**pflug.**



*Driving gear and conveyor  
technology  
Profiled belts  
Continuous round belts  
turned and plaited*

## **Co-extruded round PU belts**



# Co-extruded round PU belts

Co-extruded round PU belts combine the advantages of different raw materials to an optimal functionality for the corresponding use.

Through this manufacturing process not only different raw materials but also different profiles, like a hollow profile with EU/FDA coat can be matched.

This also allows significant improvement of the welding properties of highly filled types of raw material



Depending on the application, our anti-static<sup>2</sup> types are extruded with different cores:

- with an unfilled core for optimal welding.
- with an unfilled hollow profile core to protect the weld against lateral shearing forces.
- with individually designed core diameters depending on the specific demands on the belt.

Even for our FDA / EU approved types, smaller diameters can be achieved by using softer cores, or high friction values can be considerably reduced by using a harder sheath.





Our FDA / EU compliant types are characterized by

- Very good resistance to hydrolysis
- Very good resistance to microbes
- Particularly long service life in wet areas
- High abrasion resistance
- FDA/EU compliant types of 60 to 90 Sh.A
- Slightly roughened special surfaces or with longitudinal grooves
- Easy to clean

Especially for soft raw materials, which have a low tensile strength, matching with a harder core brings out the optimal properties of both materials.

As in this example for a 45 Sh.A sheath with very high adhesion and a 90 Sh.A core with correspondingly high tensile strength.



Type	Adhesion	Friction coefficient <sup>1</sup> $\mu$ to		temperature-resistant °C	Tensile strength MPa DIN 53504-S2 / ISO 37	Abrasion mm <sup>3</sup> DIN ISO 4649-A
		V2A grinded S green	Murfeld steel Superfinish			
35 Sh. signal grey.	very high	0,85 $\mu$	0,50 $\mu$	-20°C - +50°C	12	165
45 Sh.A grey white	very high	0,80 $\mu$	0,50 $\mu$	-20°C - +50°C	25	39
60 Sh.A ultramarine, EU/FDA	very high	0,70 $\mu$	0,40 $\mu$	-30°C - +55°C	26	44
70 Sh.A sapphire blue, EU/FDA	very high	0,65 $\mu$	0,40 $\mu$	-35°C - +60°C	30	45
75 Sh.A sky blue, EU/FDA	high	0,60 $\mu$	0,40 $\mu$	-20°C - +60°C	45	30
80 Sh.A transparent, EU/FDA	high	0,55 $\mu$	0,30 $\mu$	-20°C - +60°C	45	25
85 Sh.A ultramarine, EU/FDA	average	0,55 $\mu$	0,30 $\mu$	-20°C - +60°C	45	25
85 Sh.A black, antistatisch <sup>2</sup>	average	0,55 $\mu$	0,35 $\mu$	-20°C - +60°C	40	54
85 Sh.A milky white	average	0,50 $\mu$	0,30 $\mu$	-20°C - +60°C	50	30
88 Sh.A milky white	average	0,40 $\mu$	0,30 $\mu$	-20°C - +60°C	50	30
90 Sh.A white, EU/FDA	low	0,45 $\mu$	0,25 $\mu$	-15°C - +70°C	50	25

Our EU / FDA types are excellent hydrolysis resistant, cold flexible and resistant to microbes, making them particularly suitable for use in the wet area.

The colours shown may vary depending on the raw material pairing.



60 Sh.A EU/FDA sheath with 90 Sh.A core



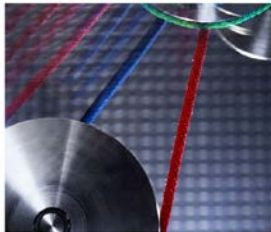
70 Sh.A EU/FDA sheath with 90 Sh.A core

<sup>1</sup> According to Pflug inspection standard SPPN 91.001

<sup>2</sup> Tested according to DIN EN 61340-2-3. Volume resistance [Ω] approx. 10<sup>4</sup>. These values may vary depending on the production batch.



**Company profile**



**Testing Service**



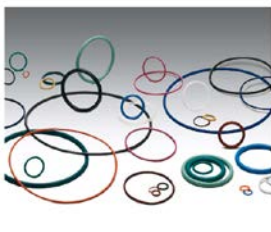
**Welded timing belts  
in short lengths**



**Round belts for  
heat-setting machines**



**Endless injected round belts**



**Endless turned round belts**



**Endless plaited round belts**



**Hooked belts**



**PU round- and profile belts**



**PU profile belts and  
special profiles**



**PU tracking guides, cleats  
and guides**

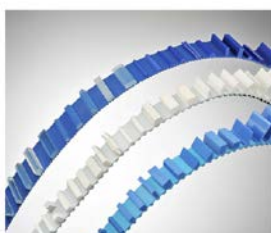


**Food line**

Types for the food industry compliant to EU/FDA



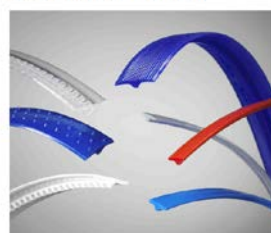
**PU cleats and block profiles**



**PU Poly-V belts**



**PU-V-guide belts  
compliant to EU/FDA**



**PU coatings**

