



Uniflexon tape

Uniflexon sealing tape is made of pure PTFE, a premium class subjected to the expansion process, which ensures practically unlimited chemical resistance of final seals. The production process of Uniflexon tape guarantees a high level of structure fibrillation, therefore the tape has not only the softness characteristic of sealing materials but also high mechanical strength, which is characteristic for fibrous materials. The tapes are available in a form of round, square and rectangular profiles with an adhesive layer, which allows them to be directly mounted on the installation in various conditions and in any position.

Properties and advantages

As a result of expansion and specific processing, PTFE obtains new properties such as: softness, elasticity and compressibility. These features allow the production of seals from PTFE and also facilitate their assembly. In addition, this material still keep the best properties of pure PTFE, such as:

- Wide operating temperature range, from cryogenic conditions up to +260°C.
- Resistant to aging processes, UV, ozone influences and it has no storage time limit.
- Good for work in contact with foodstuffs. It meets the high requirements of FDA21 CFR177.1550 and EC directive 10/2011.

Uniflexon tapes and profiles can be used for all types of flanges made of various materials, such as steel, copper, aluminum and non-ferrous metal alloys. Due to the very low initial forming stress on level 5 N/mm², they are also suitable for sealing joints of fragile or soft materials, such as plastics, epoxy composites, glass, ceramics in all industries. The Uniflexon tape easily adapts to even the most complex shapes, it can be easily cut and shaped and the installation is simple, quick and does not generate waste.

Rectangular profiles UFX

The below table shows dimensions and kind of packaging for UFX self-adhesive (PSA tape) rectangular profile tapes for quick assembly.

Symbol	Sizes [mm]	Length [m]	Qty [kg]
UFX 3x1,5	3 x 1,5	80	0,27
UFX 5x2	5 x 2	40 / 25	0,3 / 0,2
UFX 7x2,5	7 x 2,5	25	0,33
UFX 10x2	10 x 2	22	0,33
UFX 10x3	10 x 3	40/25/10	0,9/0,5/0,2
UFX 12x4	12 x 4	25	0,90
UFX 14x4	14 x 4	20	0,84
UFX 14x5	14 x 5	17	0,89
UFX 17x6	17 x 6	12	0,92
UFX 20x3	20 x 3	20	0,90
UFX 20x5	20 x 5	12	0,90
UFX 20x7	20 x 7	8	0,84
UFX 24x8	24 x 8	6	0,86
UFX 28x6	28 x 6	7	0,88
UFX 40x5	40 x 5	6	0,90
UFX 30x10	30 x 10	4 / 8	0,9 / 1,8
UFX 40x10	40 x 10	6	1,8
UFX 50x10	50 x 10	5	1,8
UFX 85x3	85 x 3	4,5 / 10	0,8 / 1,8

Round profiles UFD

Symbol	Sizes [mm]	Length [m]	Qty [kg]
UFD 2,5	2,5	90	0,33
UFD 3	3	60	0,32
UFD 4	4	35	0,33
UFD 5	5	22	0,32
UFD 6	6	40	0,85
UFD 7	7	30	0,87
UFD 8	8	22	0,83
UFD 10	10	14	0,82
UFD 12	12	10	0,85
UFD 14	14	7	0,81

Sises selection

The right choice of sealing tape size depends on the width and quality of the surface to be sealed, the flange structure and the operating conditions. Uniflexon tape behaves differently during installation than a standard gasket. The mounting stress not only compresses but also expands the tape sideways which is to fill the entire space. Therefore, use the Uniflexon tape with a width smaller than the pad width on a level from 1/2 to 2/3 of the target width. This ratio depends on the profile, the relative thickness of the tape and of course on the mounting stress. Detailed instructions for installing Uniflexon tape are provided in the special instructions.

Areas of applications

Uniflexon tape is a modern sealing material for applications in most light flanges as well as for sealing various joints in the chemical, food and pharmaceutical industries. It is a safe sealing material, easy to store and install - it enables immediate sealing on any size and shape of the flanges. It has high durability and resistance to chemicals, aging processes and most media in the industry.

Kind of packaging

Uniflexon tape is supplied on spools packed in cardboard boxes. The smaller spools are packaged as two spools in a box. The collective big cartoon contains 12 boxes, larger quantity is delivered on a pallet in amount of 25 summary cartons.



Technical parameters	Standards	Values
Working temperatures range	continuous	-200 to 260°C
Permissible operating pressure	-	80 bar
Chemical resistance range	ASTM D1460	0 - 14 pH
Flammability classification	UL 94	class V-0
Compressibility / elastic recovery	ASTM F36A-66	60 / 10%
Sealability for gases	ASTM F37 / 40 bar	0,1 ml/h
Forming factor / maximum stress	ASME code	5 / max 90 N/mm ²
Tensile strength	ASTM F152	4 MPa
Shore hardness	ISO 868	55 - 65 ShA
Friction factor μ	ISO 8295	0,1 - 0,2
Volumetric density ρ	ASTM D792	0,65 - 0,85 g/cm ³
Sizes tolerance	-	-5 / + 10%.