PTFE PRODUCTS – UNIFLON

blue

UNIFLON 50

UNIFLON 51

UNIFLON 53



Uniflon 50 is a superior performance

biaxially orientated PTFE sheet sealing mate-

rial with more conformable properties,

Uniflon 50 is specifically designed

for use in low bolt loated flanges.

Typical flanges include glass lined, cera-

mic or plastic coated or uneven and

Uniflon 50 is suitable for chemical media

across pH (0– 14) range, with exception

of melting alcali metals, fluorine gas,

hydrogen fluoride. The sheets are

excellent for handling and cutting.

ideally suited to irregular flanges.

badly distored flanges.

TF-G-O



pink

TF-M-O

0,75

FDA, BAM

1,0 x 1,0 1,5 x 1,5

Uniflon 51 is a superior performance biaxially orientated PTFE sheet sealing material with silica filler.

A general purpose grade for sealing applications across the whole pH (0–14) range.

Uniflon 51 is particulary suitable for use with strong acids (except hydrofluoric acid) and alkalis.

Other applications include solvents, fuels, water, steam and chlorine compounds.

The sheets are excellent for handling and cutting.

1,0 1,5 2,0 2,5 3,0

from -200 to +260

85

2,2

7

40

32

15

23

< 0,01

0,21

2,0 x 2,0



white

Uniflon 53 is a high performance biaxially orientated PTFE sheet material with barium sulphate filler.

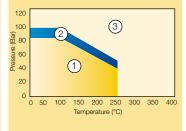
A general purpose grade for sealing applications across the whole pH (0-14) range.

It is suitable for use with hydrofluoric acid, but not pure liquid hydrogen fluoride.

Uniflon 53 can also be used with alkalis, solvents, fuels, water, steam and chlorine.

The sheets are excellent for handling and cutting.

TF-Z-C)				
FDA, E	BAM				
1,0 x 1	1,0	1,5 x 1	1,5	2,0 >	k 2,0
0,75	1,0	1,5	2,0	2,5	3,0
	fron	า -200	to +2	60	
		85	5		
3,0					
5					
40					
30					
14					
21					
< 0,01					
0,22					



TEMAC

Marking according to DIN 28 091-3 Certificate Sheet size m Thickness mm °C Max. temperature * Max. pressure * bar Density g/cm³ Compressibility (ASTM F 36) % Recovery (ASTM F 36) % Residual stress (BS 7531, 175° C) MPa Tensile strenght (ASTM F 152) MPa Creep relaxation (ASTM F 38) % Gas pemeability (DIN 3535) cm³/min

Technical properties

Legend:

Liquid leakage

ASTM F 37

Colour

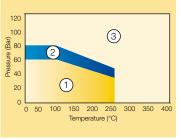
Description and application

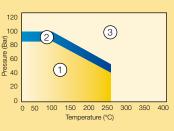
* max. values can not be used simultaneously

mL/hod

- 1 suitable subject to chemical compactability
- 2 suitable in some cases but check your applica-
- tion requirements with the technical team 3 - this area technical consultation is mandatory

FDA 1,0 x 1,0 1,5 x 1,5 2,0 x 2,0 1,0 1,5 2,0 2,5 3,0 0.75 from -200 to +260 85 1,4 40 30 25 11 35 < 0,02 0,23







Chemical resistance table

		PTFE	
Acetaldehyde	Uniflon 50 A	Uniflon 51 A	Uniflon 53 A
Acetamide	A	A	A
Acetic Acid	A	A	А
Acetic Acid Glacial Acetic Anhydride	A	A	A
Acetone	A	A	A
Acetonitrile	A	A	А
Acetyl Chloride	A	A	A
Acetylene Acrylic Acid	A	A	A
Acrylonitrile	А	А	А
Adipic Acid	A	A	A
Air Allyl Chloride	A	A	A
Alum	A	А	А
Aluminium Acetate	A	A	А
Aluminium Chloride	A Solid)A	A	A
Aluminium Sulphate	A	A	A
Ammonia Gas	А	А	А
Ammonium Carbonate	A	A	A
Ammonium Hydroxide	A	A	A
Ammonium Sulphate	А	A	А
Amyl Acetate	A	A	A
Amyl Alcohol Aniline	A	A A	A A
Aqua Regia	A	A	A
Asphalt	A	A	А
Aviation Fuel Barium Chloride	A	A A	A
Benzaldehyde	A	A	A
Benzene	A	А	А
Benzoic Acid	A	A	A
Benzonitrile Benzyl Alcohol	A	A	A
Benzyl Chloride	А	A	A
Blast Furnace Gas	А	А	А
Bleach solution Boiler Feed Water	A	A	A
Borax	A	A	A
Boric Acid	А	А	А
Brine	A	A	A
Bromine Butadiene	A	A	A
Butane	А	A	A
Butanol	A	A	A
Butyl Acetate Butyl Alcohol	A	A A	A
Butyl Methacrylate	A	A	А
Butylamine	A	A	A
Butyric Acid Calcium Chloride	A A	A A	A A
Calcium Hydroxide	A	A	A
Calcium Hypochlorite	А	А	А
Calcium Sulphate Carbolic Acid	A	A A	A A
Carbon Dioxide	A	A	A
Carbon Disulphide	А	А	А
Carbon Monoxide	A A	A A	A A
Carbon Tetrachloride Castor Oil	A	A	A
Caustic Soda < 25%	В	С	A
Chloracetic Acid	A	A	A
Chlorine Dioxide Chlorine Dry	A	A	A A
Chlorine Liquid	А	A	A
Chlorine Wet	А	A	А
Chlormethane Chlorobenzene	A	A	A A
Chloroform	А	A	A
Chlorotrifluoride	С	С	С
Chromic Acid	A	A	A A
Citric Acid Condensation Water	A	A	A
Cooper Acetate	А	А	А
Cooper Sulphate	A	A	A
Creosote Cresol	A A	A A	A A
Cyclohexane	А	A	A
Cyclohexanol	A	A	A
Cyklohexanone Dibenzyl Ether	A A	A A	A A
DIDENZYI LUIRI	~	~	~

		PTFE	
Dibutul Phtalata	Uniflon 50 A	Uniflon 51 A	Uniflon 53 A
Dibutyl Phtalate Diesel Oil	A	A	A
Diethanolamine	А	A	A
Diethylamine	A	A	A
Di-iso Butyl Ketone Dimethyl Formamide	A	A	A
Dimethylamine	A	A	A
Dioxane	А	A	A
Ethane Ethanol	A	A	A
Ethyl Acetate	A	A	A
Ethyl Acrylate	А	А	А
Ethyl Alcohol	A	A	A
Ethyl Chloride Ethyl Chloride Dry	A A	A A	A A
Ethyl Ether	A	A	A
Ethylbenzene	A	A	A
Ethylene Chlorida	A A	A A	A A
Ethylene Chloride Ethylene Glycol	A	A	A
Fluorine Dioxide	С	C	С
Fluorine Gas	С	С	С
Fluorine Liquid	C	C A	C A
Formaldehyde Formamide	A A	A	A
Formic Acid 85%	A	A	A
Fuel Oil	А	A	A
Gas LPG	A	A	A
Gas Oil Gasoline	A	A	A
Generator Gas	A	A	A
Glucose	А	А	А
Glycerine	A	A	A
Glycol Heating Oil	A A	A A	A A
Heating Oil Heptane	A	A	A
Hexane	A	A	A
Hydraulic Oil	A	A	A
Hydraulic Oil Mineral Hydrochloric Acid 37%	A	A	A
Hydrofluoric Acid < 65		C	A
Hydrofluoric Acid > 65	% С	С	В
Hydrofluosillicic Acid	C	C	В
Hydrogen Hydrogen Chloride	A A	A A	A
Hydrogen Chloride Dry	A	A	A
Hydrogen Fluoride	С	C	С
Hydrogen Peroxide 6%	A	A	A
Hydrogen Sulphide Iso-Octane	A	A	A
Isopropyl Acetate	A	A	A
Isopropyl Alcohol	А	А	А
Isopropyl Ether	A	A	A
Kerosene Lactic Acid	A A	A A	A A
Linseed Oil	A	A	A
Lubricating Oil	А	А	A
Machine Oil	A	A	A
Magnesium Sulphate Maleic Acid	A	A	A
Maleic Anhydride	A	A	A
Methane	А	А	А
Methanol	A	A	A
Methyl Alcohol Methyl Chloride	A A	A A	A A
Methyl Ethyl Ketone	A	A	A
Methyl Methacrylate	А	А	A
Methylene Chloride	A	A	A
Mineral Oil Motor Oil	A	A	A
Naphta	A	A	A
Naphtalene	А	А	А
Natural Gas	A	A	A
Nickel Chloride Nickel Sulphate	A A	A A	A A
Nitric Acid	A	A	A
Nitric Acid Red (Fuming) A	А	А
Nitrobenzene	A	A	A
Nitrogen	A	A	A
Octane Oil Crude	A	A	A
Oxalic Acid	А	А	А
Oxygen	С	A	A

		PTFE D Uniflon 51	
Palmitic Acid	A	A	A
Paraffin Pentane	A A	A	A A
Perchlorethylene	A	A	A
Perchloric Ácid	А	А	А
Petrol	А	А	А
Petroleum	A	A	A
Petroleum Gas Liquid Phenol	A A	A A	A A
Phosgene	A	A	A
Phosphoric Acid $< 45\%$	A	A	A
Phosphoric Acid > 45%	В	В	А
Phtalic Acid	A	A	A
Potable Water	A	A A	A
Potassium Acetate Potassium Carbonate	A	A	A
Potassium Chlorate	A	A	A
Potassium Chloride	A	A	A
Potassium Cyanide	А	А	А
Potassium Dichromate < 2		А	A
Potassium Hydroxide < 50		C	A
Potassium Hypochlorite	A A	A A	A
Potassium Nitrate Propane	A	A	A
Pyridine	A	A	A
Rape Seed Oil	A	А	A
Refrigerant	А	А	А
Salicylic Acid	А	А	A
Sea Water	A	A	A
Silicone Oil	A	A	A
Silver Nitrate Soap	A	A A	A
Sodium Aluminate	A	A	A
Sodium Bicarbonate	A	A	A
Sodium Bisulphite	A	A	A
Sodium Carbonate	А	А	А
Sodium Chloride	А	А	A
Sodium Cyanide	A	A	A
Sodium Hydroxide < 50%		C	A
Sodium Silicate Sodium Sulphate	A A	A A	A A
Sodium Sulphide	A	A	A
Spirits Methylated	A	A	A
Starch	A	A	A
Steam	А	А	А
Steam High Pressure	В	В	В
Steam Low Pressure	A	A	A
Stearic Acid	A A	A	A
Styrene Sugar	A	A	A
Sulphur	A	A	A
Sulphur Dioxide Dry	A	A	A
Sulphur Trioxide	А	А	А
Sulphuric Acid (Fuming)	А	А	С
Sulphuric Acid 96%	A	А	A
Sulphurous Acid	A	A	A
Tannic Acid Tar	A	A A	A
Tartaric Acid	A	A	A
Tetrachlorethane	A	A	A
Tetrachlorethylene	A	A	A
Thermal Oil	А	А	А
Toulene	А	А	А
Transformer Oil	A	А	A
Transmission Oil	A	A	A
Trichlorethylene	A A	A A	A A
Turpentine Vegetable Oil	A	A	A
Vinil Bromide	A	A	A
Vinyl Acetate	A	A	A
Vinyl Chloride	A	A	A
Water	А	А	А
White Spirit	А	А	А
Xylene	A	А	A
Zinc Chloride Zinc Sulphate	A	A	A
	А	А	A

A - suitable for application

B - suitability depends on operating conditions C - not suitable

If another medium is applied plesase contact our technical department

Contact

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