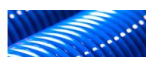
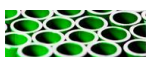


TECHNICAL DATASHEET

PVDF FX

Material	Polyvinylidene fluoride copolymer (PVDF)																		
Product code	PD06																		
Product type	- Hoses																		
Application	Pneumatic hoses and tubes in food contact, medical, chemical and industrial environments.																		
Characteristics	<p>Flexible hoses suitable for numerous environments, including food contact, with high pressures in a wide temperature range. PVDF has better mechanical properties than any of the other commercially available fluoroplastics and exceptional good UV resistance.</p> <table border="0"> <tr> <td style="vertical-align: top;">Chemical:</td> <td> <p>Excellent resistance to most mineral oils and organic acids, oxidizing environments, hydrocarbons, alcohol and halogenous solutions.</p> <p>Limited/poor resistant to flour, warm sulphuric acid, warm concentrated alkali and solutions like acetone ethyl acetate, in which PVDF will swell</p> <p><i>Please see separate chemical resistance chart for details</i></p> </td> </tr> <tr> <td style="vertical-align: top;">Pressure:</td> <td>Very good</td> </tr> <tr> <td style="vertical-align: top;">UV- & weather:</td> <td>Excellent</td> </tr> <tr> <td style="vertical-align: top;">Working temperature:</td> <td>-40°C to +120°C</td> </tr> <tr> <td style="vertical-align: top;">Flame resistance:</td> <td>V-0 (UL 94)</td> </tr> <tr> <td style="vertical-align: top;">Surface hardness:</td> <td>Shore D 68</td> </tr> <tr> <td style="vertical-align: top;">Flexural modulus:</td> <td>650 MPa</td> </tr> <tr> <td style="vertical-align: top;">Moisture absorption:</td> <td>< 0,03 %</td> </tr> <tr> <td style="vertical-align: top;">Remarks:</td> <td>-</td> </tr> </table>	Chemical:	<p>Excellent resistance to most mineral oils and organic acids, oxidizing environments, hydrocarbons, alcohol and halogenous solutions.</p> <p>Limited/poor resistant to flour, warm sulphuric acid, warm concentrated alkali and solutions like acetone ethyl acetate, in which PVDF will swell</p> <p><i>Please see separate chemical resistance chart for details</i></p>	Pressure:	Very good	UV- & weather:	Excellent	Working temperature:	-40°C to +120°C	Flame resistance:	V-0 (UL 94)	Surface hardness:	Shore D 68	Flexural modulus:	650 MPa	Moisture absorption:	< 0,03 %	Remarks:	-
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Surface hardness:	Shore D 68																		
Flexural modulus:	650 MPa																		
Moisture absorption:	< 0,03 %																		
Remarks:	-																		
Standard/Norms	<ul style="list-style-type: none"> • Approved for food contact acc. to FDA 21 CFR 177.2600 (USA) and EU directive • Approved for drinking water acc. to NSF 52 (USA) • Approved for medical use acc. to USP XXIV Class VI 																		
Compliance	<ul style="list-style-type: none"> - EC Regulation 1907/2006 (REACH) - Directive 2011/65/EU (ROHS) - Do not contain dual use additives 																		



TECHNICAL DATASHEET

Approval

Fulfills and is in accordance with the relevant requirements in:

- EU Commission Regulation no. 2023/2006 (*GMP*)
- EU Commission Regulation no. 1935/2004 (*Items for food contact*)
- EU Commission Regulation no. 10/2011 (*Plastic materials and items for food contact*)
- FDA (USA) Regulation 21 CFR 177.2600 "Rubber articles intended for repeated use"

Please request declaration of conformity for further information on food contact and specifications on dimensions

Color

Standard: Natural, black, red and blue
Specialties: Special colors at an additional charge

Print

Black printing at an additional charge

Packaging

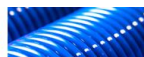
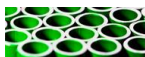
Free coils, coils in carton boxes or plastic bags and on spools
Please see separate data sheet for packaging options

Data overview

Specification of tolerances, bending radius and working pressure for standard dimensions

Tolerance: Produced in accordance with DIN 16982
Bending radius: 90° bending with min. deformation at 20°C
Working pressure: Theoretical value based on hoop stress data and a safety factor of 2,5 of burst pressure. Working pressure is stated for air only.

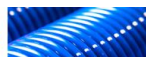
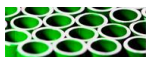
Dimension Mm	Tolerance mm		Weight g/m	Bending mm	Working pressure bar				
	OD	ID			20°C	60°C	80°C	95°C	120°C
4,0/2,0	+/-0,1	+/-0,1	16,8	20	72	41	22	19	17
5,0/3,0	+/-0,1	+/-0,1	22,4	-	54	31	17	14	13
6,0/4,0	+/-0,1	+/-0,1	28,0	30	43	25	13	11	10
7,0/5,0	+/-0,1	+/-0,1	33,6	-	36	21	11	10	8
8,0/5,0	+/-0,1	+/-0,1	54,5	-	50	29	15	13	12
8,0/5,5	+/-0,1	+/-0,1	47,2	-	40	23	12	11	9
8,0/6,0	+/-0,1	+/-0,1	39,2	35	31	18	9	8	7
9,0/7,0	+/-0,1	+/-0,1	44,8	-	27	15	8	11	10
10,0/6,0	+/-0,1	+/-0,1	89,5	-	54	31	17	14	13
10,0/7,0	+/-0,1	+/-0,1	71,3	45	38	22	12	10	9
10,0/8,0	+/-0,1	+/-0,1	50,3	-	24	14	7	6	6
12,0/8,0	+/-0,1	+/-0,1	111,9	-	43	25	13	11	10
12,0/9,0	+/-0,1	+/-0,1	88,1	-	31	18	9	8	7
12,0/10,0	+/-0,1	+/-0,1	61,5	70	20	11	6	5	5
14,0/12,0	+/-0,1	+/-0,1	72,7	-	17	10	5	4	4
16,0/12,0	+/-0,15	+/-0,15	156,6	-	31	18	9	8	7
18,0/16,0	+/-0,15	+/-0,15	95,1	-	13	7	4	3	3
20,0/16,0	+/-0,15	+/-0,15	201,4	-	24	14	7	6	6
20,0/18,0	+/-0,15	+/-0,15	106,3	-	11	7	3	3	3
22,0/18,0	+/-0,15	+/-0,15	223,8	-	22	12	7	6	5
24,0/20,0	+/-0,15	+/-0,15	246,1	-	20	11	6	5	5
26,0/22,0	+/-0,15	+/-0,15	268,5	-	18	10	6	5	4



TECHNICAL DATASHEET

Origin	Products are “Made in Denmark” and raw material for the products originates from the US
Documentation	Specific documentation is available for: <ul style="list-style-type: none">- chemical resistance- permeability- antistatic classification- standard tolerances- packaging- regulatory status

The information contained in this document is based on information obtain from raw material suppliers, data selected from the literature and specific testing, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Knudsen Extrusion ApS regarding the handling or use of the product or products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.



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2020-01-14

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