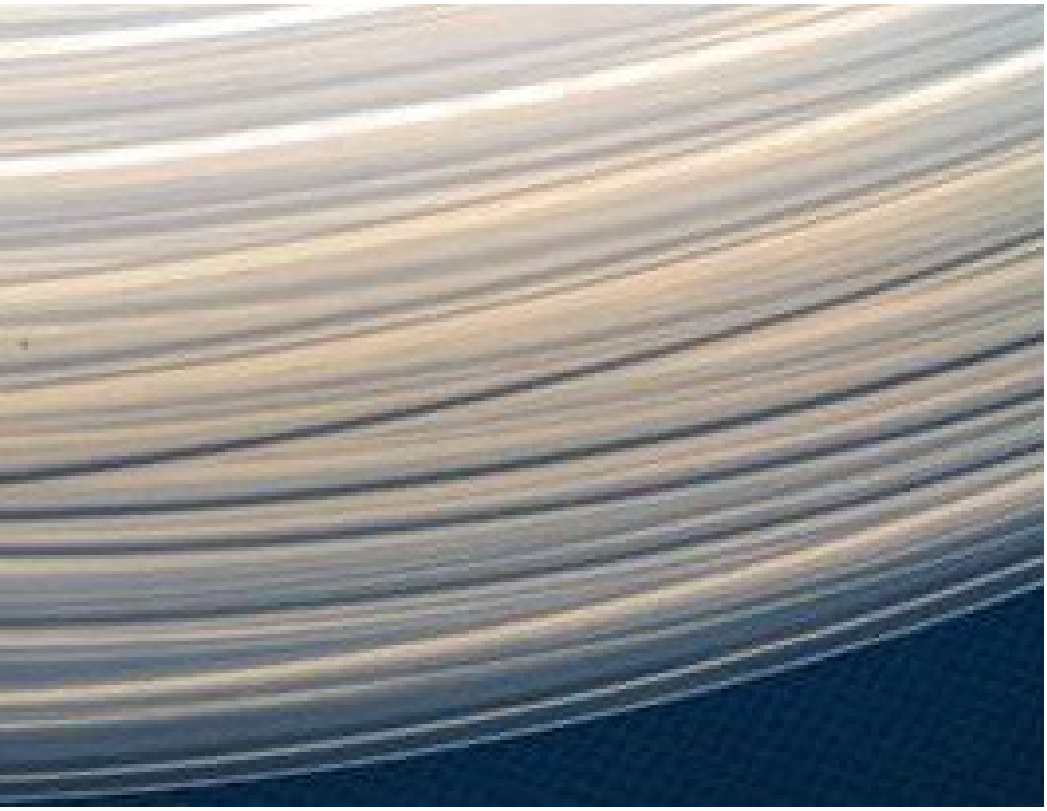
OPTUBUS
Fluid Transfer Components

Optiflon FEP

High Resistence and Transparency



chemical resistant, clear and easily weldable

Excellent Chemical Resistance

Extrem high almost universal Resistance against Acids and Bases, Solutions and Gas. The Resistance of Optiflon FEP Tube is almost the same as PTFE. It is a little harder and has a little higher strenght values. The Tubing is free of any extractable substances.

Transparency

Depending on the Wallthickness Optiflon FEP Tubing is almost clear as glas so you can easily monitor the liquid flow.

Physiologically Harmless

Free of extractable substances, Optiflon PTFE Tubing is physiologically harmless, biocompatible and autoclavable.

Thermal mouldable and easily weldable

Unlike to PTFE, Optifloin FEP is meltable and thermal mouldable. Formed parts for example with an extra small bending radius for installation in very small spaces is producible.
Optiflon FEP is also available as Shrink Tubing.

Features and Benefits

- -200°C to +205°C
- almost universal chemcial Resistance
- Transparency
- easily weldable and thermal mouldable

Typical Applications

- Laborartory and Analytics
- Medical and Pharma Products
- Food and Beverage
- Paint-Spray Lines
- Electronics

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Tyical Physical Properties of Optiflon FEP Tube

Eigenschaft	Wert
Hardness	55° Shore D
Color	transparent
Specific Gravity	2,15
Max. Working Temperature	+205°C
Min. Working Temperature	-200°C
Melting Temperature	+270°C
Tensile Strenght	24 N/mm^2 (3.500 psi)
Waterabsorbtion	<0,01%
Dielectric Strenght	>2.000 V/mm
Thermal Conductivity	1,4 BTU/hr/ft2/°F.in
Elongation	300,00%

Optiflon FEP Standard Sizes

Part No.	ID	OD	Wall	Part No.	ID	OD	Wall
PT0,51TP1,59	0,51 mm (0.02")	1,59 mm (1/16")	0,54 mm	PT4,0TP6,0	4,0 mm	6,0 mm	1,0 mm
PT0,79TP1,59	0,79 mm (1/32")	1,59 mm (1/16")	0,4 mm	PT4,76TP6,35	4,76 mm (3/16")	6,35 mm (1/4")	0,79 mm (1/32")
PT1,0TP1,59	1,0 mm	1,59 mm (1/16")	0,3 mm	PT4,76TP7,94	4,76 mm (3/16")	7,94 mm (5/16")	1,59 mm (1/16")
PT1,0TP2,0	1,0 mm	2,0 mm	0,5 mm	PT6,0TP8,0	6,0 mm	8,0 mm	1,5 mm
PT1,0TP3,0	1,0 mm	3,0 mm	1,0 mm	PT6,0TP9,0	6,0 mm	9,0 mm	1,5 mm
PT1,5TP2,5	1,5 mm	2,5 mm	0,5 mm	PT6,35TP7,94	6,35 mm (1/4")	7,94 mm (5/16")	0,79 mm (1/32")
PT1,5TP3,0	1,5 mm	3,0 mm	0,75 mm	PT6,35TP9,53	6,35 mm (1/4")	9,53 mm (3/8")	1,59 mm (1/16")
PT1,59TP3,18	1,59 mm (1/16")	3,18 mm (1/8")	0,79 mm (1/32")	PT6,35TP12,7	6,35 mm (1/4")	12,7 mm (1/2")	3,18 mm (1/8")
PT1,59TP4,76	1,59 mm (1/16")	4,76 mm (3/16")	1,59 mm (1/16")	PT8,0TP10,0	8,0 mm	10,0 mm	1,0 mm
PT2,0TP3,0	2,0 mm	3,0 mm	0,5 mm	PT8,0TP12,0	8,0 mm	12,0 mm	2,0 mm
PT2,0TP4,0	2,0 mm	4,0 mm	1,0 mm	PT9,0TP12,0	9,0 mm	12,0 mm	1,5 mm
PT2,38TP3,18	2,38 mm (3/32")	3,18 mm (1/8")	0,40 mm (1/64")	PT9,53TP11,1	9,53 mm (3/8")	11,11 mm (7/16")	0,79 mm (1/32")
PT2,5TP4,0	2,5 mm	4,0 mm	0,75 mm	PT10,0TP11,0	10,0 mm	12,0 mm	1,0 mm
PT3,0TP4,0	3,0 mm	4,0 mm	0,5 mm	PT12,0TP14,0	12,0 mm	14,0 mm	1,0 mm
PT3,0TP5,0	3,0 mm	5,0 mm	1,0 mm	PT12,7TP15,88	12,7 mm (1/2")	15,88 mm (5/8")	1,59 mm (1/16")
PT3,18TP3,97	3,18 mm (1/8")	3,97 mm (5/32")	0,40 mm (1/64")	PT14,0TP16,0	14,0 mm	16,0 mm	1,0 mm
PT3,18TP4,76	3,18 mm (1/8")	4,76 mm (3/16")	0,79 mm (1/32")	PT16,0TP18,0	16,0 mm	18,0 mm	1,0 mm
PT3,18TP6,35	3,18 mm (1/8")	6,35 mm (1/4")	1,59 mm (1/16")	PT18,0WS20,0	18,0 mm	20,0 mm	1,0 mm
PT4,0TP5,0	4,0 mm	5,0 mm	0,5 mm	PT20,0WS22,0	20,0 mm	22,0 mm	1,0 mm