

FEP Tube

FITCO® -ISO-FEP

Fitcotube-FEP is more transparent and flexible than PTFE.
Also virtually unaffected by oxygen, ozone and UV light.

Operating temperature: +204°C

Melting temperature: +260°C bis +277°C

Description	Standard tolerances			
	Outside diameter		Wall thickness	
	mm	tol. (mm)	mm	tol. (mm)
FITCOTUBE® FEP-1	> 1.99	± 0.07	> 0.30	± 0.05
FITCOTUBE® FEP-2	2.00 – 3.99	± 0.08	0.31 – 0.70	± 0.08
FITCOTUBE® FEP-4	4.00 – 7.99	± 0.10	0.71 – 1.00	± 0.10
FITCOTUBE® FEP-8	8.00 – 9.99	± 0.12	1.01 – 1.30	± 0.12
FITCOTUBE® FEP-10	10.00 – 11.99	± 0.15	1.31 – 1.60	± 0.15
FITCOTUBE® FEP-12	12.00 – 15.99	± 0.20	1.61 – 2.00	± 0.20
FITCOTUBE® FEP-16	16.00 – 17.99	± 0.25	2.01 – 2.50	± 0.25
FITCOTUBE® FEP-18	18.00 – 19.99	± 0.30	2.51 – 3.00	± 0.30
FITCOTUBE® FEP-20	20.00 – 23.99	± 0.35	3.01 – 3.50	± 0.35
FITCOTUBE® FEP-24	24.00 – 29.99	± 0.40	3.51 – 4.00	± 0.40
	etc.		etc.	

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Properties	Test Method	Typical Value
Mechanical		
Tensile strength	D 1708	3,500 psi
Flexural modulus	D 790 at +23°C	95,000 psi
Bending resistance	-	15,000 (MIT)
Creep resistance	D674	Pass (pounds/square inch)
Tensile modulus	D638	60,000 psi
Ultimate elongation	D 1708	300 %
Impact resistance	D 256 at +23°C	No break (Ft-Lb/in)
Flexural strength	D790	No break (psi)
Compressive strength	D 695	2,200 psi
Specific weight	D 792	2.15
Hardness durometer	D 2240	D-55
Coefficient of friction	Dynamic (< 10 feet/min)	0.2
Refractive index	D 542	1.338
Linear coefficient of expansion: (21°C - 100°C) (100°C - 149°C) (149°C - 209°C)	D696	4.5-5.8x10 ⁻⁵
Thermal		
Thermal conductivity	C-177	1.4 (BTU/h/ft ² /°F. in)
Deformation under load	D621	1.8 (23°C, 1000 psi, 24h)
Flammability	UL 94	Pass
Heat of melting	-	11 BTU/Pound
Specific heat (cal./g/°C): 25°C 100°C 200°C 275°C	C-177	0,26
Rejection temperature: 66 psi 264 psi	-	59°C 57°C
Electrical		
Dielectric strength (short term) 10 mils film	D 149	> 2,000 V/Mil
Specific surface resistance	D 257	> 10 ¹⁶ Ω/Square
Volume resistance	D 257	> 10 ¹⁸ Ωxcm
Chemical		
Water absorption	D 570	< 0.01 %
Oxygen index	D 2863	> 95 %