

FEP Heat Shrink Sleeving Technical Properties

FEP Heat Shrink Sleeving

	Properties	DIN or ASTM Standard	Unit	FEP
Physical	Specific Gravity	53479	g/cc	2.12-2.17
	Maximum Working Temperature		°C	205
	Flame Rating		UL-94	94 V-O
	Water Absorption	53495	%	<0.01
Mechanical	Ultimate tensile strength at 23°C	53455		19-25
	Ultimate tensile strength at 150°C		Mpa	4-6
	Ultimate tensile strength at 250°C			n.a.
	Yield point at 23°C	53455	N/mm ²	12
	Elongation at break , at 23°C	53455	%	250-350
	Modulus of elasticity in tension at 23°C	53457	N/mm ²	350-700
	Maximum bending stress at 23°	53452	Mpa	
	Flexural Modulus	53457	N/mm ²	660-680
	Ball Hardness 132-60	53456	N/mm ²	23-29
	Rockwell Hardness R	ASTM-D-785		
	Shore Hardness D	53505		55-60
	Coefficient of friction (dry with steel)			0.30-0.35
Thermal	Melting temperature	ASTM 2116	°C	253-282
	Heat deflection temperature @ 18.5 Kp/sq.cm	53461	°C	51
	Heat deflection temperature @ 4.6 Kp/sq.cm	ISO R 75	°C	70
	Coefficient of expansion		1/K.10-5	8-14
	Thermal conductivity at 23°C	52612	W/K.m	0.20
	Specific heat at 23°C		Kj/Kg.K	1.17
	Oxygen index		%	>95
Electrical	Relative permittivity at 10 (3) Hz	53483		2.1
	Relative permittivity at 10 (6) Hz			2.1
	Surface resistivity	ICE 93+167	Ohms	10 (16)
	Arc resistance	ASTM 495	sec	>300
	Dielectric strength	53481	KV/mm	50-80

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FEP Standard Wall

Hilltop Part No.	Supplied ID mm	Shrunk ID mm	Wall mm
FEP-1.5/1-X	1.5	1.0	0.25
FEP-1.6/1.1-X	1.6	1.1	0.25
FEP-1.8/1.3-X	1.8	1.3	0.15
FEP-2.0/1.5-X	2.0	1.5	0.3
FEP-2.5/1.9-X	2.5	1.9	0.3
FEP-2.7/2.0-X	2.7	2.0	0.2
FEP-3.6/3.0-X	3.6	3.0	0.2
FEP-4.8/3.6-X	4.8	3.6	0.27
FEP-6.2/4.6-X	6.2	4.6	0.3
FEP-8.0/6.0-X	8.0	6.0	0.3
FEP-9.5/7.0-X	9.5	7.0	0.5
FEP-12/9.0-X	12	9.0	0.5
FEP-13.5/10-X	13.5	10	0.5
FEP-15/11-X	15	11	0.5
FEP-17/13-X	17	13	0.5
FEP-21/16-X	21	16	0.5
FEP-25/19-X	25	19	0.5
FEP-31/23-X	31	23	0.5
FEP-36/27-X	36	27	0.5
FEP-43/32-X	43	32	0.5
FEP-54/40-X	54	40	0.5
FEP-62/46-X	62	46	0.5
FEP-76/56-X	76	56	0.5
FEP-81/65-X	81	65	0.5
FEP-96/80-X	96	80	0.5
FEP-115/95-X	115	95	0.5
FEP-150/113-X	150	113	0.7

FEP Thin Wall

Hilltop Part No.	Supplied ID mm	Shrunk ID mm	Wall mm
FEPL-2.7/2.0-X	2.7	2.0	0.2
FEPL-5.1/3.8-X	5.1	3.8	0.25
FEPL-7.4/5.5-X	7.4	5.5	0.25
FEPL-10.2/7.5-X	10.2	7.5	0.25
FEPL-12.8/9.5-X	12.8	9.5	0.25
FEPL-18/13-X	18	13	0.25
FEPL-22/16-X	22	16	0.25
FEPL-27/19-X	27	19	0.25
FEPL-31/23-X	31	23	0.25
FEPL-36/27-X	36	27	0.25
FEPL-44/32-X	44	32	0.25
FEPL-53/39-X	53	39	0.25
FEPL-62/46-X	62	46	0.25

FEP Heavy Wall

Hilltop Part No.	Supplied ID mm	Shrunk ID mm	Wall mm
FEPH-31/23-X	31	23	1.5
FEPH-50/37-X	50	37	1.5
FEPH-66/49-X	66	49	1.5
FEPH-82/61-X	82	61	1.5
FEPH-100/74-X	100	74	1.5
FEPH-132/96-X	132	96	1.5

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