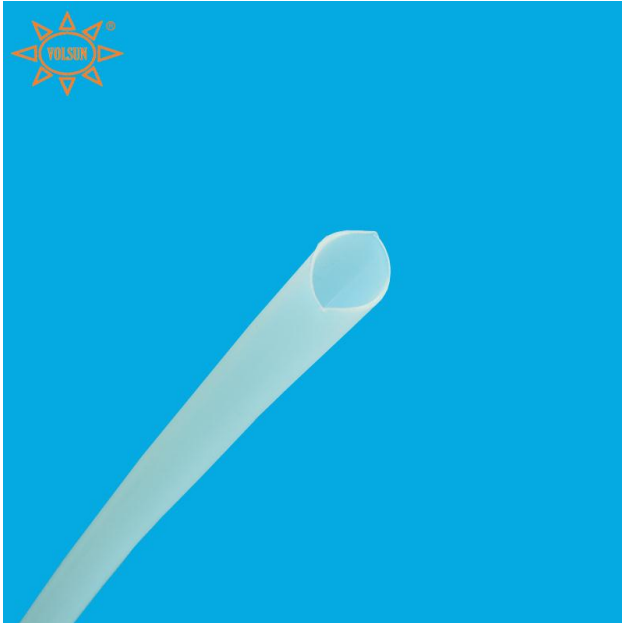




NS-PTFE260(FEP200)HOSE

PTFE Teflon Hose



Description

PTFE Teflon Hose, short for polytetrafluoroethylene tubing, is made of superior polytetrafluoroethylene resin through special extrusion and sintering process. This product is highly electrical insulating, highly flame retardant, self-lubricating and highly resistant to super high temperature, chemical reagents and almost all oil and other chemicals. It finds extensive applications in automotive, war industry and aerospace markets.

Features

- Chemically inert, resistant to almost all chemicals
- Good weather resistance, corrosion resistance, and ageing resistance
- Low surface friction coefficient, high bond resistance
- Good electrical characteristics, esp. superior electrical insulation performance
- Operating temperature:-65°C~260°C
- Application: Pure water system, food, chemicals, coating, medical, painting industry etc
- Standard color: transparent



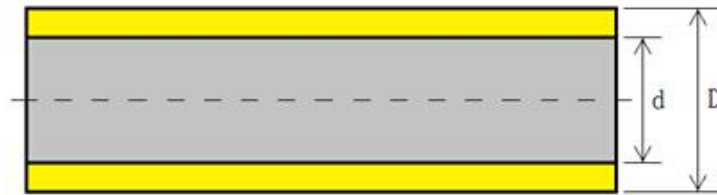
Technical Performance

Properties	Specific	Unit	Typical Data	Test Method
Physical	Density		2.16±0.03	ASTM D 792
	Refractive index		1.35	ASTM D 542
	Appearance		Transparent to opaque	
	Water absorption	%	< 0.01	ASTM D 570
Mechanical	Tensile strength	N/mm ²	25 ~ 30	ASTM D 638
	Elongation	%	25 ~ 40	ASTM D 1708
	Tensile modulus	N/mm ²	750	
	Flexural modulus	N/mm ²	44 ~ 52	
	Shore Type D Hardness		D50 ~ D65	ASTM D 2240
Thermal	Flame propagation			
	Linear expansion coefficient	10 ⁻⁵ /°C	10	ASTM D 635
	Thermal conductivity	Cal/S/cm/°C	5 ~ 11.10 ⁻⁴	ASTM D 696
	Specific heat capacity	Cal/°C/g	0.25	ASTM C 177



Thermal	working temperature		2.2	ASTM D 150
	Dielectric constant	$\Omega \cdot \text{cm}$	$> 10^{18}$	ASTM D 257
	Volume resistivity	Ω	$> 10^7$	ASTM D 257
	Surface resistivity	KV/mm	17.2 ~ 24	D149
Other	Insulation parameter		None	

Structure



PTFE Dimension (mm)

ID d(mm)	ID tolerance (mm)	Wall thickness w(mm)	OD D(mm)	OD tolerance (mm)
1.0	± 0.15	0.5	2.0	± 0.15
2.0	± 0.15	0.5	3.0	± 0.15
2.0	± 0.15	1.0	4.0	± 0.15
3.0	± 0.15	0.5	4.0	± 0.15
3.0	± 0.15	1.0	5.0	± 0.15
3.0	± 0.15	1.5	6.0	± 0.15



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4.0	±0.15	0.5	5.0	±0.15
4.0	±0.15	1.0	6.0	±0.15
5.0	±0.20	0.5	6.0	±0.20
5.0	±0.20	1.0	7.0	±0.20
5.0	±0.20	1.5	8.0	±0.20
6.0	±0.20	0.5	7.0	±0.20
6.0	±0.20	1.0	8.0	±0.20
6.0	±0.20	1.5	9.0	±0.20
7.0	±0.20	0.5	8.0	±0.20
7.0	±0.20	1.0	9.0	±0.20
7.0	±0.20	1.5	10.0	±0.20
8.0	±0.20	0.5	9.0	±0.20
8.0	±0.20	1.0	10.0	±0.20
9.0	±0.20	0.5	10.0	±0.20
9.0	±0.20	1.0	11.0	±0.20
9.0	±0.20	1.5	12.0	±0.20
10.0	±0.20	0.5	11.0	±0.20
10.0	±0.20	1.0	12.0	±0.20
10.0	±0.20	1.5	13.0	±0.20
11.0	±0.30	1.0	12.0	±0.30



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11.0	±0.30	1.5	13.0	±0.30
12.0	±0.30	0.5	13.0	±0.30
12.0	±0.30	1.0	14.0	±0.30
12.0	±0.30	1.5	15.0	±0.30
13.0	±0.30	1.0	15.0	±0.30
14.0	±0.30	0.5	15.0	±0.30
14.0	±0.30	1.0	16.0	±0.30
15.0	±0.30	0.5	16.0	±0.30
15.0	±0.30	1.0	17.0	±0.30
15.0	±0.30	1.5	18.0	±0.30
16.0	±0.40	1.0	18.0	±0.40
16.0	±0.40	1.5	19.0	±0.40
17.0	±0.40	1.0	19.0	±0.40
17.0	±0.40	1.5	20.0	±0.40
18.0	±0.40	1.0	20.0	±0.40
18.0	±0.40	1.5	21.0	±0.40
19.0	±0.40	1.5	22.0	±0.40
20.0	±0.40	1.0	22.0	±0.40
20.0	±0.40	1.5	23.0	±0.40



PTFE Dimension (Inch)

Size	Inner diameter(Inch)	Wall thickness(inch)	ID tolerance(inch)	Outer diameter(inch)	OD tolerance(inch)
1/32	0.031	0.016	±0.003	0.063	±0.004
1/16	0.063	0.031	±0.005	0.125	±0.004
1/16	0.063	0.062	±0.010	0.188	±0.008
1/8	0.125	0.031	±0.005	0.188	±0.008
1/8	0.125	0.062	±0.010	0.250	±0.008
5/23	0.156	0.047	±0.007	0.250	±0.008
3/16	0.188	0.031	±0.005	0.250	±0.008
1/4	0.250	0.031	±0.005	0.312	±0.010
1/4	0.250	0.062	±0.010	0.375	±0.010
5/16	0.312	0.031	±0.005	0.375	±0.010
3/8	0.375	0.031	±0.005	0.438	±0.010
3/8	0.375	0.062	±0.010	0.500	±0.010
7/16	0.438	0.031	±0.005	0.500	±0.015
1/2	0.500	0.031	±0.005	0.500	±0.015
1/2	0.500	0.062	±0.010	0.625	±0.015
9/16	0.562	0.031	±0.005	0.625	±0.015



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5/8	0.625	0.031	±0.007	0.687	±0.020
5/8	0.625	0.062	±0.010	0.750	±0.020
11/16	0.687	0.031	±0.007	0.750	±0.020
3/4	0.750	0.040	±0.007	0.830	±0.020
7/8	0.875	0.045	±0.007	0.965	±0.020
7/8	0.875	0.062	±0.010	1.000	±0.020
1	1.000	0.045	±0.007	1.340	±0.020
1-1/4	1.250	0.045	±0.007	1.340	±0.020
1-1/2	1.500	0.050	±0.008	1.600	±0.025

Other customized length sizes are available on request.