

CHEMFLUOR® FLUOROPOLYMER HEAT SHRINKABLE TUBING



Chemfluor® Fluoropolymer Heat Shrinkable Tubing is extruded tubing that is heated, dilated with internal pressure, and then cooled while still under pressure. The expanding temperature is specifically selected so that when pressure is released, the tubing remains in an expanded but unstable state. In subsequent heating, the tubing readily returns to its original extruded size.

Expanded tubing is slipped over parts such as hoses, metal rollers, or wires. The application of heat reminds the tubing of its original form, so that it shrinks down over the parts within, forming a tight jacket.

When bonding or a tighter seal is desired, the fluorocarbon can be chemically etched to allow this inert tubing material to accept an adhesive.

Simple Application of Heat Creates a Super-Tight Bond

Features/Benefits

- FEP- and PFA-based construction
- Shrink ratios up to 1.67:1, including multi-wall
- Standard and custom sizes, diameters and wall thicknesses available
- Chemical etching and adhesive application compatible

Typical Industries

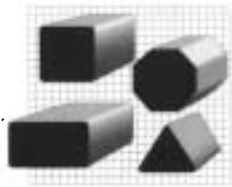
- Pulp and paper
- Textiles
- Converting
- Laminating
- Food Processing

Chemflur® Fluoropolymer Heat Shrinkable Tubing

Saint-Gobain Heat Shrinkable Tubing is not limited to being shrunk onto round shaped products...

SMT TUBING

Heat shrinkable tubing made from FEP fluoropolymer resin is transparent. It is available in long, continuous lengths and in diameters from 1/32" up to 2".



Shrinkable tubing of FEP has good mechanical strength; it can be used continuously at up to 200°C (400°F), depending on the stress level. It is resistant to virtually all chemicals and solvents and has excellent electrical properties. Meets requirement of MIL-I-23053/11B.

SMT TUBING (1.3:1 RATIO)

Nominal Size	Expanded I.D. Recovered I.D.	Recovered Wall Thickness	Wall Tolerances + / -
AWG 24"	.031" / .027"	.008"	.002"
22	.036 / .032	.008	.002
20	.045 / .039	.008	.002
18	.060 / .049	.008	.002
16	.075 / .061	.009	.002
14	.092 / .072	.009	.002
12	.115 / .089	.009	.002
10	.141 / .114	.010	.003
9	.158 / .124	.010	.003
8	.180 / .143	.010	.003
7	.197 / .158	.011	.004
6	.225 / .180	.011	.004
5	.248 / .198	.011	.004
4	.290 / .226	.011	.004
3	.310 / .249	.011	.004
2	.365 / .280	.012	.004
1	.400 / .311	.012	.004
0	.440 / .349	.012	.004
3/8	.500 / .383	.015	.004
7/16	.580 / .448	.020	.004
1/2	.666 / .510	.020	.004
5/8	.830 / .637	.025	.004
3/4	1.000 / .764	.030	.004
7/8	1.170 / .891	.035	.004
1	1.330 / 1.020	.035	.004
1-1/8	1.500 / 1.145	.035	.004
1-1/4	1.666 / 1.270	.035	.004
1-3/8	1.833 / 1.390	.035	.004
1-1/2	2.000 / 1.520	.035	.004

CHEMFLUR® is a registered trademark.

Saint-Gobain Performance Plastics

I-295 and Harmony Road • Mickleton, NJ 08056

Tel: (856) 423-6630 • Toll Free: (800) 543-8823

Fax: (856) 423-8182

2664 Gilchrist Road • Akron, OH 44305

Tel: (330) 798-9240 • Toll Free: (800) 798-1554

Fax: (330) 798-6968

www.bunnell-plastics.com

SST TUBING

SST is identical to SMT except that it is available in higher shrink ratios (1.67:1 vs. 1.3:1). The higher ratio allows it to be used in a wider range of applications. Meets requirements of MIL-I-23053/11B.



SST TUBING (1.67:1 RATIO)

Nominal Size	Expanded I.D. Recovered I.D.	Recovered Wall Thickness	Wall Tolerances + / -
3/32"	.093" / .056"	.008"	.003"
1/8	.125 / .075	.010	.003
3/16	.188 / .115	.010	.003
1/4	.250 / .150	.010	.003
3/8	.375 / .225	.012	.003
1/2	.500 / .300	.015	.004
3/4	.750 / .450	.020	.004
1	1.000 / .600	.025	.005
1-1/2	1.500 / .900	.030	.005
2	2.000 / 1.200	.030	.005

SPT TUBING

SPT features a uniform wall. The tubing forms a skin-tight, seamless covering of pure FEP over the component. The covering is non-flammable, inert to corrosive chemicals, transparent and resistant to weathering, and has excellent anti-stick and electrical properties.

SPT TUBING (1.25:1 RATIO)

Nominal Size	Expanded I.D. Recovered I.D.	Recovered Wall Thickness + / -.003"
1/2"	.550" / .440"	.020"
5/8	.700 / .540	.020
3/4	.800 / .640	.020
5/8	.950 / .760	.020
1	1.100 / .880	.020
1-1/4	1.300 / 1.000	.020
1-1/2	1.700 / 1.300	.020
2	2.100 / 1.700	.020

WTF TUBING

Because FEP melts, flows, and bonds to substrates — while PTFE does not — this interesting product consists of an FEP liner with a heat shrinkable PTFE outer jacket. When heated, the FEP liner melts and forms a chemical-proof bond to the substrate while the PTFE outer jacket shrinks down. The resulting fit is so tight that it is safe against almost any environmental hazard involving pull or vibration. Typical applications include wire connections, terminals, probe encapsulations, etc.

WTF SHRINKABLE WITH MELT LINER

STANDARD WALL			
Part No.	Minimum Expanded I.D.	Maximum Recovered I.D.	Nominal Wall
1202	.036"	.000"	.023"
1203	.060"	.000	.028
1211	.130	.000	.032
1204	.160	.000	.032
1212	.190	.062	.035
1205	.250	.125	.035
1206	.350	.190	.035
1207	.450	.312	.055
1208	.700	.440	.055
1209	.950	.680	.065
LIGHT WALL			
Part No.	Minimum Expanded I.D.	Maximum Recovered I.D.	Nominal Wall
1232	.065"	.000"	.015"
1233	.115	.045	.015
1241	.130	.060	.015
1234	.180	.065	.015
1242	.190	.070	.015
1235	.240	.150	.020
1236	.350	.210	.025
1237	.480	.315	.032
1238	.700	.500	.040
1239	1.000	.700	.045

PFA TUBING

PFA heat shrinkable tubing offers improved flex life and service temperature range 260°C (500°F) and is available on a custom run basis. Please consult with Saint-Gobain Performance Plastics' Sales Department or Customer Support for your specific size requirement and for further details prior to ordering.



Limited Warranty: For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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