THERMOSLEEVE | USA
YOUR TUBING SPECIALIST

Part Number PTFE

Header PTFE 1.8x High Temp Teflon Heat Shrink Tubing

Description Thermosleeve-USA PTFE tubing has superior chemical resistance and very low friction properties. It is designed to provide insulation and mechanical protection in severe chemical and thermal environments. PTFE heat shrink tubing has a high temperature tolerance range, high mechanical strength and extremely low friction properties. Used widely in the medical, aviation, aerospace, and scientific instrumentation industries.

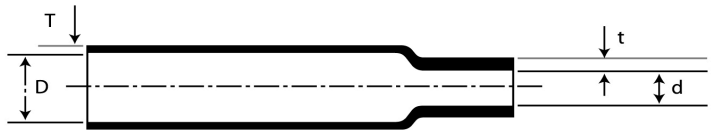
Agency Approval & Compliance ROHS, Halogen Free, SAE, MIL, Flame Retardant, VW1, REACH

Application PTFE is designed to provide insulation and mechanical protection in severe chemical and thermal environments. Used widely in the medical, aviation, aerospace, and scientific instrumentation industries.

Shrink Ratio and Operating Temperature PTFE is available as a 1.8:1 material, shrinking to o45% of its supplied size. The tubing's wall thickness also changes proportionally to the degree of recovery.

PTFE high temperature heat shrink has a continuous operating temperature range of -55 degrees C (-67 degrees F) to 260 degrees C (500 degrees F)

Standard Sizes and Dimension



Size (mm)	Size (inch)	Inside Dia. (mm)		Wall thickness (mm)
		As supplied (D)	After recovery (d)	After recovery (t)
0.5	1/64"	0.7±0.2	≤0.4	0.23
0.8	1/32"	0.8±0.2	≤0.45	0.23
1.0	3/64"	1.0±0.2	≤0.5	0.23
1.5	1/16"	1.5±0.2	≤0.9	0.25
2.0	5/64"	2.0±0.2	≤1.3	0.25
2.5	7/64"	2.5±0.2	≤1.5	0.30
3.0	1/8"	3.0±0.2	≤1.8	0.30
3.5	9/64"	3.5±0.2	≤2.0	0.30
4.0	5/32"	4.0±0.3	≤2.5	0.30
4.5	3/16"	4.5±0.3	≤2.8	0.30
5.0	13/64"	5.0±0.3	≤3.0	0.30
6.0	1/4"	6.0±0.3	≤3.8	0.38
7.0	9/32"	7.0±0.3	≤4.0	0.38
8.0	5/16"	8.0±0.3	≤4.8	0.38
9.0	3/8"	9.0±0.3	≤5.0	0.38

10.0	13/32"	10.0±0.3	≤6.0	0.38
12.0	1/2"	12.0±0.3	≤7.0	0.38

Typical Properties

Item	Test Method	Unit	Specifications
Shrink Temperature	—	ºC	327
Temperature Range	UL224	ºC	200
Operating temperature		°C	-55°C to+260°C
Tensile strength	ASTM D638	M Pa	24.5
Elongation at break	ASTM D638	%	350
Bending Modulus	ASTM D790	M Pa	490
Impact Strength	ASTM D256+23°C-54°C J/m		No break, 107
Hardness (shore)	ASTM D2240	Shore D	55
Coefficient of Dynamic Friction			0.1
Flammability	UL-224		VW-1
Dielectric Constant 10^3-10^6Hz	ASTM D150		2.1
Dielectric Dissipation Factor @ 10^6Hz	ASMT D150		0.0002
Arc Resistance (Stainless Steel Electrodes)	ASMT D495	S	>300
Volume Resistivity	ASTM D257	Ω /cm	$>10^{18}$
Weather Resistance	"Weather-o-meter" (2000h)		No crack
Fluid resistance	ASTM D543		Excellent
Chemical resistance	ASTM D543		Excellent

Availability Four-foot lengths, master reels and cut pieces

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