



## #SM320 – 3:1 Adhesive-Lined Polyolefin Heat Shrink Tubing

**3:1 Shrink Ratio**  
**Semi-Rigid Medium Wall**  
**Dual-Wall Adhesive-Lined**  
**Flame Retardant Polyolefin Tubing**

### Applications

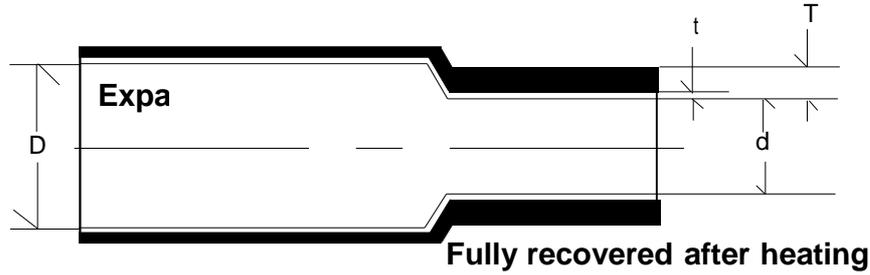
Daburn DAFLEX SM320 is a large size, medium wall adhesive lined, large ratio, heat shrinkable tubing with a meltable adhesive liner. When 120°C is applied, the tubing will shrink to 1/3 of its supplied size. As the outer wall shrinks the inner adhesive liner melts and flows. When cooled, it offers protection for a variety of electrical applications such as insulating and sealing cable splices, terminations and jacket repairs as well as retrofitting. It provides “sealed-in” protection from chemicals and oils. DAFLEX SM320 is ideally suited for shipboard, submersible, direct-buried installations or wherever tougher mechanical protection is required in an electrical insulation system. Daburn SM320 also resists abrasion, UV radiation and is RoHS compliant.

### Features

- Shrink ratio: 67% or more in the radial direction, 20% or less in the axial direction
- Continuous operating temperature: - 55°C (-67°F) to 125°C (230°F)
- Flammability: UL-VW-1, CSA OFT (except clear)
- High Carbon Black composition to resist UV radiation
- To UL 224 Standard and RoHS Compliant

### Specification/Test Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	Min. 1,200 psi	
		Elongation	Min. 200%	
	Aged	Tensile strength	ASTM D638	Min. 1,000 psi
		Elongation	ASTM D638	Min. 100%
	Fluid Resist.	Tensile strength	24°C /24 hrs	Min. 750 psi
		Dielectric strength	6 Fluids	Min. 200 Volts/Mil.
	Low temperature flex		-55°Cx4hrs	No cracks
Heat shock		225°Cx4 hrs.	No cracks, flowing or dripping	
Secant Modulus		ASTM D882	Max. 25,000 psi	
Electrical	Dielectric strength		ASTM D2671	Min. 200 Volts/Mil.
	Volume resistivity		ASTM D876	Min. 1 x 10 <sup>13</sup> Ω - cm
Chemical	Copper corrosion		121°C/16 hrs.	No corrosion
	Fungus resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 0.5
	Flammability		ASTM D2671	Pass



**Product Sizes and Dimensions**

**Minimum Shrink Temperature: 130°C**

Daburn Item Number	mm size	Expanded		Recovered			
		Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (Nominal) (T)	
		In.	mm	In.	mm	In.	mm
SM320-0.3"	7	0.276	7.0	0.098	2.5	0.032	0.80
SM320-0.4"	10	0.402	10.2	0.150	3.8	0.060	1.52
SM320-0.75"	18	0.752	19.1	0.220	5.6	0.060	1.52
SM320-1.1"	27	1.098	27.9	0.374	9.5	0.105	2.67
SM320-1.3"	33	1.299	33.0	0.374	9.5	0.105	2.67
SM320-1.5"	38	1.500	38.1	0.500	12.7	0.120	3.05
SM320-1.7"	45	1.701	43.2	0.500	12.7	0.140	3.56
SM320-2"	50	2.000	50.8	0.752	19.1	0.142	3.60
SM320-2.7"	70	2.701	68.6	0.902	22.9	0.135	3.44
SM320-3"	75	2.953	75.0	1.252	31.8	0.104	2.64
SM320-4"	100	3.937	100.0	1.752	44.5	0.104	2.64
SM320-4.5"	115	4.488	114.0	1.752	44.5	0.130	3.30
SM320-5.5"	140	5.512	140.0	1.654	42.0	0.138	3.50

Standard Color: Black and Red (where indicated by -2). Please call for other colors.  
 All sizes sold in 4 foot lengths only.