



DUNBAR-PMWT-FR

3:1 SHRINK RATIO, FLEXIBLE, SEMI-RIGID, MEDIUM WALL, FLAME-RETARDANT, ADHESIVE-LINED POLYOLEFIN TUBING

Applications

DUNBAR-PMWT-FR is designed to provide reliable performance as well as excellent mechanical and environmental protection. DUNBAR-PMWT-FR is designed for sealing and insulation of cable splices, electrical connections, terminations and jacket repairs. Ideally suited for shipboard, submersible, direct-buried installations, or wherever tougher mechanical protection is required in an electrical insulation system.

Features

- ★ Shrink ratio: 67% or more in the radial direction, 10% or less in the axial direction
- ★ In stock for immediate shipments
- ★ Operating temperature range: -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
- ★ Exceptional flexibility prior to recovery

Standard

- ★ AMS-DTL-23053/15 Class 2 (Formerly MIL-DTL-23053/15 Class 2)
- ★ UL 224 (File Number E319303)
- ★ DNV File No. E-7977, E-7978
- ★ ABS File No. 02-SE23285-X
- ★ RoHS Compliant

Specification Values

Properties		Test Methods	Values	
Physical	Unaged	Tensile strength	Min. 1200 psi	
		Elongation	Min. 200%	
	Aged	Tensile strength	Min. 1000 psi	
		Elongation	Min. 100%	
	Fluid Resist.	Tensile strength	24 °C/24 hrs	Min. 750 psi
		Dielectric strength	6 Fluids	Min. 200Volts/mil
	Low temperature flex		-55°Cx4hrs	No cracks
Heat shock		225°Cx4hrs	No cracks, flowing, or dripping	
Secant Modulus		ASTM D882	Max. 25,000 psi	
Electrical	Dielectric strength		ASTM D2671	Min. 200V / mil
	Volume resistivity		ASTM D876	Min. $1 \times 10^{13} \Omega$ - cm
Chemical	Copper corrosion		121°C/16hrs	No corrosion
	Fungus resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 0.5
	Flammability		ASTM D2671	Pass

Rev. Feb 2015



Dunbar Products, LLC
Tubing and Identification Products

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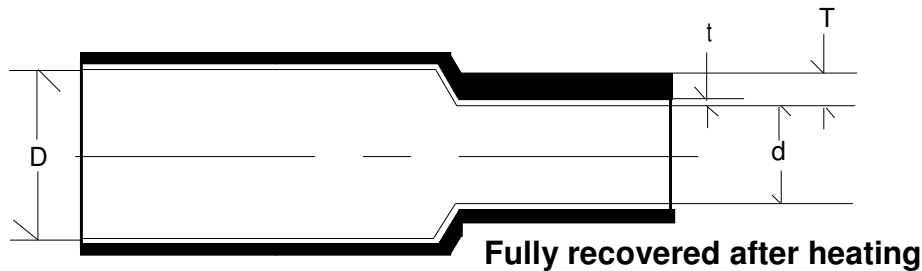
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Available Colors



Black

Red



Product Dimensions Minimum Shrink Temperature: 120 °C

Mil Spec	Expanded			Recovered			
	As Supplied ID* (min.) (D)		Nominal Size (mm)	Internal Diameter (max.) (d)		Wall Thickness (nominal) (T)	
X = Color Code	In.	mm	mm	In.	mm	In.	mm
	0.276	7.0	7	0.098	2.5	0.032	0.80
201-X	0.402	10.2	10	0.150	3.8	0.060	1.52
202-X	0.752	19.1	18	0.220	5.6	0.060	1.52
203-X	1.098	27.9	27	0.374	9.5	0.105	2.67
204-X	1.299	33.0	33	0.374	9.5	0.105	2.67
205-X	1.500	38.1	38	0.500	12.7	0.120	3.05
206-X	1.701	43.2	45	0.500	12.7	0.140	3.56
208-X	2.000	50.8	50	0.752	19.1	0.142	3.60
207-X	2.701	68.6	70	0.902	22.9	0.135	3.44
	2.953	75.0	75	1.252	31.8	0.104	2.64
	3.937	100.0	100	1.752	44.5	0.104	2.64
	4.488	114.0	115	1.752	44.5	0.130	3.30
	5.512	140.0	140	1.654	42.0	0.138	3.50

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Per M23053/15 – “As Supplied” ID is for uncoated product. An allowance may be necessary depending on coating.



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