

M23053/14

1.5:1 SHRINK RATIO, ETHYLENE-TETRAFLUOROETHYLENE TUBING

Applications

MIL-DTL-23053/14 is a flame retardant heat shrinkable ethylene-tetrafluoroethylene tube. It is similar to MIL-DTL-23053/11 except that it has a higher tensile strength. It is used for high abrasive applications and is much stiffer than MIL-DTL-23053/11.

Features

- ★ In stock for immediate shipments
- ★ Shrink ratio: 1.5:1 shrink ratio in the radial direction, ± 10% in the axial direction
- ★ Continuous operating temperature: - 100°C to 150°C
- ★ Highly heat-resistant
- ★ High resistance to chemicals and oils

Standard

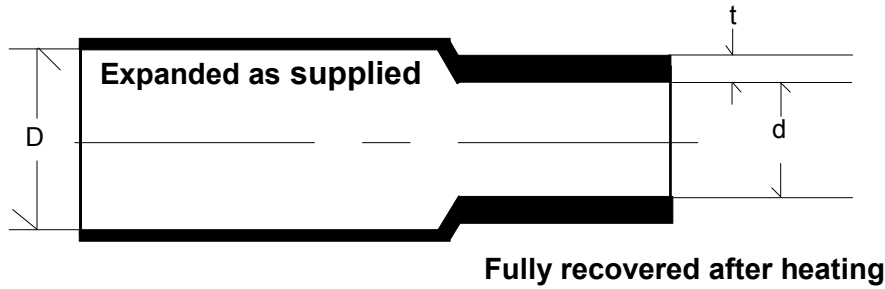
- ★ MIL-DTL-23053/14
- ★ RoHS Compliant

Specification Values

	Property	Test Method	Value
Physical	Specific Gravity	ASTM D792	1.70-1.76
	Elongation	ASTM D638	420-460%
	Tensile Strength	ASTM D638	6100-6800 psi
	Flexural Strength	ASTM D790	5500
	Compressive Strength	ASTM D695	2500 psi
	Flexural Modulus	ASTM D790	128,000-171,000 psi
	Hardness Durometer	ASTM D636	D-75
	Abrasion Resistance	Taber	N/A
Electrical	Dielectric Strength	ASTM D149	N/A
		ASTM D149	≥1600 (10 MIL)
	Volume Resistivity	ASTM D257	>10 ¹⁶ Ω - cm
	Surface Resistivity	ASTM D257	>10 ¹⁵ Ω - cm
General	Chemical/Solvent Resistance	ASTM D543	No corrosion
	Water Absorption	ASTM D570	<0.03
	Deformation Under Load	ASTM D621	5.4
	Flammability Rating	UL 94	VO

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Product Dimensions

Minimum Shrink Temperature: 175°C

Size	Expanded		Recovered				23053/14
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (t)		
	In.	mm	In.	mm	In.	mm	
3/32"	.093	2.36	.062	1.57	.010 ± .002	.254 ± .051	001
1/8"	.125	3.18	.083	2.11	.010 ± .002	.254 ± .051	002
3/16"	.187	4.78	.125	3.18	.011 ± .002	.279 ± .051	003
1/4"	.250	6.35	.166	4.22	.013 ± .003	.330 ± .076	004
3/8"	.375	9.53	.250	6.35	.013 ± .003	.330 ± .076	005
1/2"	.500	12.70	.345	8.76	.013 ± .003	.330 ± .076	006
3/4"	.750	19.05	.500	12.70	.018 ± .004	.457 ± .102	007
1"	1.000	25.40	.665	16.89	.022 ± .004	.559 ± .102	008
1-1/4"	1.250	31.75	.835	21.21	.030 ± .004	.762 ± .102	009
1-1/2"	1.500	38.10	1.00	25.40	.030 ± .004	.762 ± .102	010