

M23053/12 C4

2:1 SHRINK RATIO, POLYTETRAFLUOROETHYLENE TUBING LIGHT WALL

Applications

MIL-DTL-23053/12 C4 is a light wall, flame retardant heat shrinkable polytetrafluoroethylene tube. It is designed for a wide range of applications requiring high heat-resistance.

Features

- ★ In stock for immediate shipments
- ★ Shrink ratio: 50% shrink ratio in the radial direction, ± 20% in the axial direction
- ★ Continuous operating temperature: - 75°C to 260°C
- ★ Highly heat-resistance
- ★ High resistance to chemicals and oils

Standard

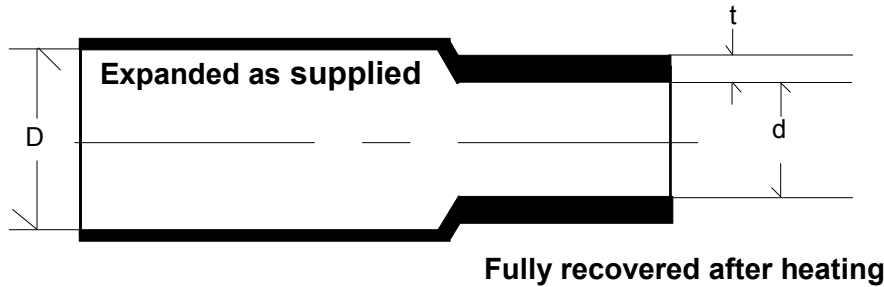
- ★ MIL-DTL-23053/12 Class 4
- ★ RoHS Compliant

Specification Values

	Property	Test Method	Value
Physical	Specific Gravity	ASTM D792	2.13-2.0
	Elongation	ASTM D638	200-450%
	Tensile Strength	ASTM D638	2000-4500 psi
	Flexural Strength	ASTM D790	No break
	Compressive Strength	ASTM D695	3500 psi
	Flexural Modulus	ASTM D790	71000-85000 psi
	Hardness Durometer	ASTM D636	D-50-65
	Abrasion Resistance	Taber	12 (1000 revs)
Electrical	Dielectric Strength	ASTM D149	500 (125 MIL)
		ASTM D149	≥1400 (10 MIL)
	Volume Resistivity	ASTM D257	>10 ¹⁸ Ω - cm
	Surface Resistivity	ASTM D257	>10 ¹⁷ Ω - cm
General	Chemical/Solvent Resistance	ASTM D543	No corrosion
	Water Absorption	ASTM D570	<0.01
	Deformation Under Load	ASTM D621	No growth
	Flammability Rating	UL 94	VO

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Product Dimensions

Minimum Shrink Temperature: 327°C

AWG Size	Expanded		Recovered				23053/12
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (t)		
	In.	mm	In.	mm	In.	mm	Class 4
30	.034	.86	.015	.381	.006 ± .002	.152 ± .051	-
28	.038	.97	.018	.457	.006 ± .002	.152 ± .051	-
26	.046	1.17	.022	.559	.006 ± .002	.152 ± .051	-
24	.050	1.27	.025	.644	.006 ± .002	.152 ± .051	401
22	.055	1.40	.031	.790	.006 ± .002	.152 ± .051	402
20	.060	1.53	.038	.970	.006 ± .002	.152 ± .051	403
19	.065	1.65	.043	1.09	.006 ± .002	.152 ± .051	404
18	.076	1.93	.046	1.17	.006 ± .002	.152 ± .051	405
17	.085	2.16	.054	1.37	.006 ± .002	.152 ± .051	406
16	.093	2.36	.057	1.45	.006 ± .002	.152 ± .051	407
15	.110	2.79	.063	1.60	.006 ± .002	.152 ± .051	408
14	.120	3.05	.072	1.83	.008 ± .002	.203 ± .051	409
13	.140	3.56	.080	2.03	.008 ± .002	.203 ± .051	410
12	.150	3.81	.089	2.26	.008 ± .002	.203 ± .051	411
11	.170	4.32	.099	2.51	.008 ± .002	.203 ± .051	412
10	.191	4.85	.110	2.79	.008 ± .002	.203 ± .051	413
9	.205	5.21	.122	3.10	.008 ± .002	.203 ± .051	414
8	.240	6.10	.139	3.53	.008 ± .002	.203 ± .051	416
7	.270	6.86	.154	3.91	.008 ± .002	.203 ± .051	417
6	.302	7.67	.172	4.37	.010 ± .003	.254 ± .076	418
5	.320	8.13	.192	4.88	.010 ± .003	.254 ± .076	419
4	.370	9.40	.214	5.44	.010 ± .003	.254 ± .076	420
3	.390	9.91	.241	6.12	.010 ± .003	.254 ± .076	421
2	.430	10.92	.270	6.86	.010 ± .003	.254 ± .076	423
1	.450	11.43	.301	7.65	.010 ± .003	.254 ± .076	424
0	.470	11.94	.347	8.81	.012 ± .003	.305 ± .076	426