

M23053/12 C2

2:1 SHRINK RATIO, POLYTETRAFLUOROETHYLENE TUBING STANDARD WALL

Applications

M23053/12 C2 is a standard 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

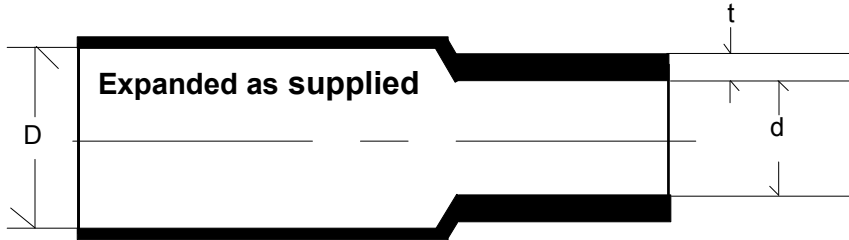
- ★ MIL-DTL-23053/12 Class 2
- ★ RoHS Compliant

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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Fully recovered after heating

Product Dimensions

Minimum Shrink Temperature: 327°C

Size	Expanded		Recovered				23053/12
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (t)		
AWG Size	In.	mm	In.	mm	In.	mm	Class 2
24	.050	1.27	.027	.686	.012 ± .002	.305 ± .051	201
22	.055	1.40	.032	.813	.012 ± .002	.305 ± .051	202
20	.060	1.53	.039	.991	.016 ± .003	.406 ± .076	203
19	.065	1.65	.043	1.09	.016 ± .003	.406 ± .076	204
18	.076	1.93	.049	1.25	.016 ± .003	.406 ± .076	205
17	.085	2.16	.054	1.37	.016 ± .003	.406 ± .076	206
16	.093	2.36	.061	1.55	.016 ± .003	.406 ± .076	-
15	.110	2.79	.067	1.70	.016 ± .003	.406 ± .076	207
14	.120	3.05	.072	1.83	.016 ± .003	.406 ± .076	208
13	.140	3.56	.080	2.03	.016 ± .003	.406 ± .076	210
12	.150	3.81	.089	2.26	.016 ± .003	.406 ± .076	211
11	.170	4.32	.101	2.57	.016 ± .003	.406 ± .076	212
10	.191	4.85	.112	2.85	.016 ± .003	.406 ± .076	213
9	.205	5.21	.124	3.15	.020 ± .004	.508 ± .102	214
8	.240	6.10	.141	3.58	.020 ± .004	.508 ± .102	216
7	.270	6.86	.158	4.01	.020 ± .004	.508 ± .102	217
6	.302	7.67	.178	4.52	.020 ± .004	.508 ± .102	218
5	.320	8.13	.198	5.03	.020 ± .004	.508 ± .102	219
4	.370	9.40	.224	5.69	.020 ± .004	.508 ± .102	220
3	.390	9.91	.249	6.32	.020 ± .004	.508 ± .102	221
2	.430	10.92	.278	7.06	.020 ± .004	.508 ± .102	223
1	.450	11.43	.311	7.90	.020 ± .004	.508 ± .102	224
0	.470	11.94	.347	8.81	.020 ± .004	.508 ± .102	226
Fractional Size							
1/8"	.215	5.46	.130	3.30	.020 ± .004	.508 ± .102	215
1/4"	.410	10.41	.260	6.60	.020 ± .004	.508 ± .102	222
5/16"	.470	11.94	.329	8.36	.020 ± .004	.508 ± .102	225
3/8"	.560	14.22	.399	10.13	.025 ± .006	.635 ± .152	228
7/16"	.655	16.64	.462	11.73	.025 ± .006	.635 ± .152	229
1/2"	.750	19.05	.524	13.31	.025 ± .006	.635 ± .152	230
5/8"	.930	23.62	.655	16.64	.030 ± .006	.762 ± .152	231
3/4"	1.125	28.58	.786	19.96	.035 ± .008	.889 ± .203	232
7/8"	1.310	33.27	.911	23.14	.035 ± .008	.889 ± .203	233
1"	1.500	38.10	1.036	26.31	.035 ± .008	.889 ± .203	234