

M23053/12 C5

4:1 SHRINK RATIO, POLYTETRAFLUOROETHYLENE TUBING

Applications

MIL-DTL-23053/12 C4 is a 4:1, 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: 4:1 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

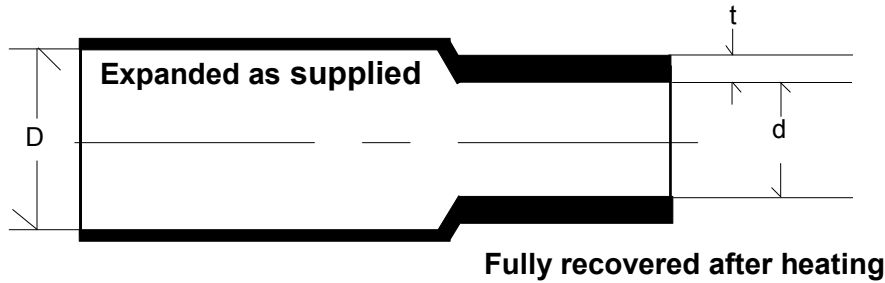
- ★ MIL-DTL-23053/12 Class 5
- ★ RoHS Compliant

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

Size	Expanded		Recovered				23053/12
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (t)		
	In.	mm	In.	mm	In.	mm	Class 5
5/64"	.078	1.98	.025	.635	.009 ± .002	.229 ± .051	501
1/8"	.125	3.18	.037	.940	.012 ± .002	.305 ± .051	502
3/16"	.187	4.77	.050	1.27	.012 ± .002	.305 ± .051	503
1/4"	.250	6.35	.063	1.60	.012 ± .002	.305 ± .051	504
5/16"	.312	7.95	.078	1.98	.012 ± .002	.305 ± .051	505
3/8"	.375	9.53	.096	2.44	.012 ± .002	.305 ± .051	506
7/16"	.438	11.13	.112	2.84	.012 ± .002	.305 ± .051	507
1/2"	.500	12.70	.144	3.66	.015 ± .004	.381 ± .102	508
5/8"	.625	15.88	.178	4.52	.015 ± .004	.381 ± .102	510
3/4"	.750	19.05	.224	5.69	.015 ± .004	.381 ± .102	512
7/8"	.875	22.23	.244	6.20	.015 ± .004	.381 ± .102	513
1"	1.00	25.40	.278	7.06	.015 ± .004	.381 ± .102	514
1-1/4"	1.25	31.75	.347	8.81	.015 ± .004	.381 ± .102	515