

M23053/4 C2

2:1 SHRINK RATIO, DUAL-WALL, FLEXIBLE, POLYOLEFIN TUBING


Applications

MIL-DTL-23053/4 C2 is designed for general purpose applications such as the insulation and strain relief of electrical connections and terminations, light-duty harnessing, jacketing and bundling. Adhesive lining forms an environmental seal that helps protect against moisture.

Features

- ★ Shrink ratio: 50% or more in the radial direction
- ★ Operating temperature: - 55°C to 125°C
- ★ Flammability: UL VW-1(Jacket only)
- ★ Minimum shrink temperature: 90° C

Standard

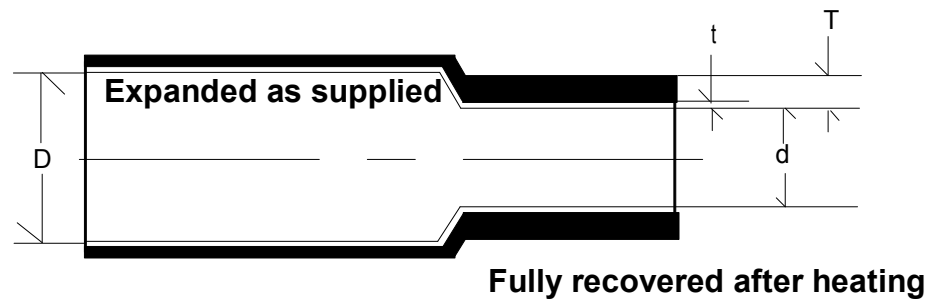
- ★ MIL-DTL-23053/4 Class 2
- ★ UL 224 (File Number: E319314) 
- ★ RoHS Compliant

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	ASTM D 638 Min. 1.1kgf/mm ²	
		Elongation	UL 224 Min. 200%	
	Aged	Tensile strength	ASTM D 638 Min. 0.8kgf/mm ²	
		Elongation	UL 224 175°C/168hrs Min. 100%	
	Density		ASTM D-792	Max. 1.40g/cm ² @23°C
	Heat shock		MIL-I-23053	Pass @250°Cx4hrs
	Low temperature flex		MIL-I-23053	No crack @-55°C
	Flexibility		158°C/168 hrs	No crack
Secant Modulus		UL 224	Max. 173MPa	
Electrical	Dielectric strength		UL 224 Min. 2500V	
	Volume resistivity		UL 224 Min. 1x10 ¹⁴ Ω - cm	
Chemical	Copper corrosion		MIL-I-23053 175°C/16hrs No corrosion	
	Copper stability		UL 224 No sign of degradation	
	Elongation		158°C/168hrs Min. 100%	
Flammability (VW-1)		UL 224	Pass	

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Product Dimensions

Minimum Shrink Temperature: 90°C

Size	Expanded		Recovered						Standard Length
	Internal Diameter Minimum (D)		Internal Diameter Maximum (d)		Minimum Total Wall Thickness (Total Wall) (T)		Minimum Wall Thickness (Adhesive Wall) (t)		
Inch Size	In.	mm	In.	mm	In.	mm	In.	mm	Ft.
1/8"	0.126	3.2	.062	1.57	0.025	0.43	0.008	0.20	4
3/16"	0.189	4.8	.093	2.36	0.025	0.43	0.008	0.20	4
1/4"	0.252	6.4	.125	3.18	0.030	0.56	0.008	0.20	4
3/8"	0.378	9.6	.187	4.75	0.030	0.56	0.012	0.30	4
1/2"	0.500	12.7	.250	6.35	0.030	0.56	0.012	0.30	4
3/4"	0.752	19.1	.375	9.53	0.035	0.69	0.012	0.30	4
1"	1.00	25.4	.50	12.70	0.040	0.76	0.012	0.30	4
1-1/2"	1.50	38.1	.75	19.10	0.043	0.86	0.012	0.30	4