

# M23053/1

2:1 SHRINK RATIO, NEOPRENE, FLEXIBLE, FLAME RETARDENT, TUBING

## Applications

MIL-DTL-23053/1 is used for insulation, strain relief, and abrasion protection on cable harnesses and wire bundles in military and aerospace industries. Provides fluid and solvent resistance, including lubricating oil, aviation and ground-vehicle fuels and hydraulic fluids. Neoprene remains flexible at low temperatures

## Features

- ★ Shrink ratio: 50% or more in the radial direction
- ★ Operating temperature range: - 70°C to 121°C
- ★ Flammability: MIL-DTL-23053/1 Class 1 and Class 2
- ★ Minimum shrink temperature: 135°C

## Standard

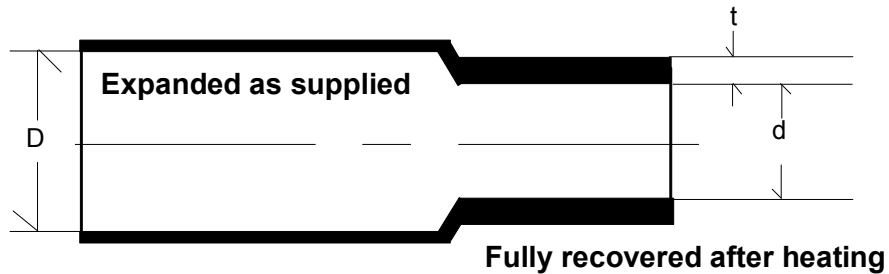
- ★ MIL-DTL-23053/1 Class 1 and Class 2

## Specification Values

Properties		Test Methods	Values	
Physical	Unaged	Tensile strength	ASTM D 638	Min. 1.1kgf/mm <sup>2</sup>
		Elongation		Min. 250%
	Aged	Tensile strength	ASTM D 638 150°C/168hrs	Min. 0.85kgf/mm <sup>2</sup>
		Elongation		Min. 200%
	Density		ASTM D-792	Max.1.40g/cm <sup>2</sup> @23°C
	Heat shock		MIL-I-23053	Pass @200°Cx4hrs
Low temperature flex		MIL-I-23053	No crack @-75°C	
Electrical	Dielectric strength		ASTM D 876	Min. 300V / mil
	Volume resistivity		ASTM D 876	Min. 1x10 <sup>11</sup> Ω - cm
Chemical	Copper corrosion		MIL-I-23053 150°C/16hrs	No corrosion
	Fluid resistance		MIL-I-23053 23°C/24hrs	Min. 0.85kgf/mm <sup>2</sup> Min. 200% Min. 250V/mil
	Tensile strength			
	Elongation			
	Dielectric strength			
Flammability		MIL-I-23053	Pass	

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## Product Dimensions

Minimum Shrink Temperature: 135°C

Size	Expanded		Recovered				Standard Spool Length
	Internal Diameter (Minimum) (D)		Internal Diameter (Maximum) (d)		Minimum Total Wall Thickness (t)		
Inch Size	In.	mm	In.	mm	In.	mm	Ft.
1/8"	0.125	3.2	0.062	1.57	0.028	0.70	500
3/16"	0.188	4.8	0.093	2.36	0.030	0.75	250
1/4"	0.250	6.4	0.143	3.6	0.035	0.89	250
3/8"	0.375	9.5	0.211	5.4	0.040	1.01	100
1/2"	0.500	12.7	0.286	7.3	0.048	1.21	100
5/8"	0.625	15.9	0.357	9.1	0.052	1.32	100
3/4"	0.750	19.1	0.428	10.9	0.057	1.44	100
7/8"	0.875	22.2	0.500	12.7	0.065	1.65	100
1"	1.00	25.4	0.570	14.5	0.070	1.70	100
1-1/4"	1.25	31.8	0.714	18.1	0.087	2.20	100
1-1/2"	1.5	38.1	0.857	21.8	0.095	2.41	100
2"	2.0	50.8	1.14	29.0	0.110	2.79	100
3"	3.0	76.2	1.71	43.4	0.125	3.17	100

Standard Color: Black