

# Thermal Memory Ltd

6 Dodd Croft  
Rochdale OL16 4QX  
Gtr. Manchester  
Great Britain

Website : [www.shrinkfit.co.uk](http://www.shrinkfit.co.uk)

E-mail : [shrinkfit@gmail.com](mailto:shrinkfit@gmail.com)



**Highly flexible, general purpose, flame retardant, thin wall polyolefin, heatshrink tubing.**

**EMS3** Flexible, cross-linked polyolefin, flame retarded, heat shrink tubing with a high expansion ratio, that has good resistance to common fluids & solvents, enabling the tubing to be used in numerous military industries for covering cable components with irregular shapes & sizes.

**Applications:**

Cable bundling, irregular shapes & sizes, identification of cables & wires on military harness environments.

**Main Features**

- Standard shrink ratio 3:1
- Ideal for irregular shapes
- Flame retarded colours (Not Clear)
- Lower inventory sizes needed due to higher shrink ratio.
- Horizontal shrinkage: ±5%

**Operating Temperature**

- 55°C to +135°C
- Shrink temperature +100°C



MIL-DTL-23053 formerly known as MIL-I-23053 - M23053.

CODE TYPE	UL224 VW-1	CSA OFT	MIL SPEC	DEF-STAN
<b>EMS 3</b>	Passes	Passes	MIL-DTL-23053/5, VG95343 Pt 5	59-97

Size	Suppl ied I.D. mm	Recovered I.D. mm	FULLY RECOVERED Wall Thickness mm
1.5/0.5	1.5	0.5	0.45
3/1	3.0	1.0	0.55
4.5/1.5	4.5	1.5	0.60
6/2	6.0	2.0	0.65
9/3	9.0	3.0	0.75
12/4	12.0	4.0	0.75
18/6	18.0	6.0	0.85
24/8	24.0	8.0	1.00
40/13	40.0	13.0	1.15

# If tubing/sleevings is restricted in any way, this will cause the wall thickness to differ from the actual nominal dimensions stated above.

Properties	Test Method	Typical Value
Tensile Strength	ISO 37	10 MPa
Ultimate Elongation	ISO 37	250 %
Longitudinal (Horizontal) change	ASTM D 2671	± 5 %
Heat Shock 4hrs @ +250°C	ASTM D 2671	No dripping, cracking or flowing
Flammability	ASTM D 876	pass
Low temperature flexibility 4hrs @ -55°C	ASTM D 2671	No cracking
Dielectric Strength	IEC 243	20 kV/mm Min.
Water Absorption	ISO 62	0.5 %

Colours : Black, (Clear - Halogen free), other colours to minimum order quantities.