

Thermal Memory Ltd

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EMS5B is an highly flexible, flame retardant, elastomer heat-shrink tubing. It has excellent resistance to aviation, oil & diesel fuels, hydraulic & lubricating fluids.

Areas which require excellent long term heat, abrasion and chemical resistance. Both are for jacketing for cables & wiring harnesses associated in typical ground support & military vehicles.

Main features

Standard shrink ratio 2:1
Highly flame retarded
Resistant to oil, diesel fuels, abrasion & chemical resistant.

Operating Temperatures

-75°C to 150°C
Minimum shrink temp 175°C



EMS5 is discontinued.

CODE TYPE	MIL SPEC	VG	DEF - STAN	RoHS
EMS5B	MIL-DTL-23053/16	95343 Part 5	59-97 Type 6B	Yes / Si

Sizes	Inside diameter		# Wall thickness		Minimum 1 Box mtr / feet	
	Supplied D(min) mm	Expanded D(max) (inches)	Fully recovered d(max) mm	Fully recovered w(nom) (inches)		
3.2/1.6	3.2	(0.125)	1.6	(0.063)	0.76 (0.0299)	300 / 984
4.8/2.4	4.8	(0.187)	2.4	(0.094)	0.84 (0.0331)	300 / 984
6.4/3.2	6.4	(0.250)	3.2	(0.125)	0.90 (0.0355)	300 / 984
9.5/4.8	9.5	(0.375)	4.8	(0.187)	1.00 (0.0394)	150 / 492
12.7/6.4	12.7	(0.500)	6.4	(0.250)	1.20 (0.0473)	150 / 492
19.0/9.5	19.0	(0.750)	9.5	(0.375)	1.45 (0.0571)	90 / 295
25.4/12.7	25.4	(1.000)	12.7	(0.500)	1.80 (0.0709)	90 / 295
38.0/19.0	38.0	(1.500)	19.0	(0.750)	2.40 (0.0945)	60 / 197

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

Ordering Information

- Colour** 0, Black only.
- Sizes required** Refer to dimensions table above and select the right size required to fit snugly over the area of the substrate/component (preferably +20%)
- For ordering** Specify the code type, colour, size and your quantities (Example EMS5B 25.4-0-120M)

Properties	Test Method	Typical Values
Tensile strength	ISO 37	14 MPa
Ultimate elongation	ISO 37	350%
Longitudinal shrinkage	ASTM D2671	± 10%
Heat Shock 4hrs @ 215°C	ASTM D2671	No dripping, flowing or cracking.
Flammability	ASTM D876	Passes
Dielectric strength	IEC 243-1	8kV/mm
Low temperature flexibility 4hrs @ -75°C	ASTM D2671	No cracking
Fungus Resistance	BS 2011 Pt2, 1J	2