3M™ EMI Tin-Plated Copper Foil Shielding Tape 1183 with Electrically Conductive Acrylic Adhesive

Data Sheet

Product Description	3M™ EMI Tin-Plated Copper Foil Shielding Tape 1183 is a 2.66-mil (0.068 mm) thick tape composed of a 1.4-mil (0.036 mm) tin-plated flat copper foil backing coated on one side with a non-corrosive, electrically conductive acrylic pressure-sensitive adhesive supplied on a removeable liner.		
	 Commonly used for EMI/RFI shielding applications in the electronics industry and for static charge draining, seaming shielded rooms, cable wrapping and surface contact to non-solderable materials 		
	 Can be die-cut, is solderable and offers a multitude of uses in electrical design and test laboratories for prototyping, design and troubleshooting 		
	 Adhesive requires no moisture, solvents, heat or other manner of preparation to affect application 		
	Flame Retardant per UL-510A Standard		

Physical Properties			lue I (Metric)		Electrical Properties	Value Imperial (Metric)
Color - Visual			te Tin		Electrical Resistance ⁴ - Maximum	0.005 Ω/in ²
Adhesive		Electrically (Conductive Acrylic		Shielding Effectiveness ³ - Average 300 kHz – 2.5 GHz	68 dB	
Backing		Tin Pated Co	pper Foil - Flat			
Flame Retardant ²		Pa	SS			
Mechanical Properties		Va Imperia	lue I (Metric)			
Backing Thickness - Nominal			0.036 mm)			
Total Thickness ¹			· 0.14 mils · 0.004 mm)			
Adhesion to Steel ¹ - Minimum		25 oz/in	(2.7 N/cm)			
Breaking Strength ¹ - Mini	mum	18 lb/in	(32 N/cm)			
 ASTM D4935 Test N Test Method: MIL-S a. Silver coated glassing 	Method - p STD-202 M ass beads e	t per UL510A St operties measur ethod 307 mainta mbedded in acry	andard, Category OA ed at room temperatu ained at 5 psi (3.4 N/c vlic adhesive provide	RC2, ure 73 cm ²) r the el	8°F (23°C) unless otherwise stated measured over a 1 in ² surface area lectrical path between application substrate ar	
 ASTM D4935 Test N Test Method: MIL-S 	Method - p STD-202 M ass beads o Many thickn	t per UL510A St operties measur ethod 307 mainta mbedded in acry factors deter ess of foil, ac	andard, Category OA ed at room temperatu ained at 5 psi (3.4 N/o /lic adhesive provide mine the true shi	RC2, ure 73 cm ²) r the el	File No. E17385 3°F (23°C) unless otherwise stated measured over a 1 in² surface area	including type and
 ASTM D4935 Test N Test Method: MIL-S a. Silver coated gla 	Method - p STD-202 M ass beads o Many thickn freque • UL	t per UL510A St operties measur ethod 307 mainta mbedded in acry factors deter ess of foil, ac nocy of the El Component	andard, Category OA ed at room temperatu ained at 5 psi (3.4 N/c /lic adhesive provide mine the true shi lhesive type, intin MI signal, etc. Recognized: ULS	RC2, ure 73 cm ²) r the el ieldii macy	File No. E17385 3°F (23°C) unless otherwise stated measured over a 1 in ² surface area lectrical path between application substrate ar ng effectiveness of a shielding tape,	including type and ion surface, o. E17385
 ASTM D4935 Test M Test Method: MIL-S a. Silver coated gla Shielding Effectiveness Agency Approvals & 	Method - p STD-202 M ass beads of Many thickn freque • UL • Fo This p	t per UL510A St operties measur ethod 307 mainta mbedded in acry factors deter ess of foil, ac ency of the El Component Regulatory i	andard, Category OA ed at room temperatu ained at 5 psi (3.4 N/c /lic adhesive provide mine the true shi lhesive type, intir MI signal, etc. Recognized: UL5 nformation inclu 5-year shelf life	RC2, Jre 73 cm ²) r the el ieldil mac	File No. E17385 ^{3°} F (23°C) unless otherwise stated measured over a 1 in ² surface area lectrical path between application substrate ar ng effectiveness of a shielding tape, y of contact, smoothness of applicat	including type and ion surface, o. E17385 <u>M.com/regs</u>
 ASTM D4935 Test N Test Method: MIL-S a. Silver coated gli Shielding Effectiveness Agency Approvals & Self Certifications 	Method - p STD-202 M ass beads of Many thickn freque • UL • Fo This p contro 3M™	t per UL510A St operties measur ethod 307 mainta mbedded in acry factors deter ess of foil, ac ency of the El Component Regulatory i roduct has a olled storage	andard, Category OA ed at room temperatu ained at 5 psi (3.4 N/o /lic adhesive provide mine the true shi lhesive type, intir VII signal, etc. Recognized: UL5 information inclu 5-year shelf life ((50°F/10°C to 8)	RC2, ure 73 cm ²) r the el ieldii mac 510A ding (fror 0°F/	File No. E17385 SPF (23°C) unless otherwise stated measured over a 1 in ² surface area lectrical path between application substrate ar ng effectiveness of a shielding tape, y of contact, smoothness of applicat A Standard, Category OARC2, File N N ROHS, REACH, please visit <u>www.31</u> m date of manufacture) when stored	including type and ion surface, o. E17385 <u>M.com/regs</u> in humidity-

Properties

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