3MTM Aluminum Foil Tape 1170 Aluminum Foil with Conductive Adhesive

Data Sheet

April 2010

Description	3M [™] Aluminum Foil Tape 1170 consists of a 1-ounce rolled aluminum foil backing and an electrically conductive, pressure-sensitive acrylic adhesive. This tape is supplied on a removable liner for easy handling and die-cutting. It has excellent solder ability.	
Agency Approvals & Self Certifications	Meets flame retardant requirements of UL510, Product Category OANZ2, File E17385	
	RoHS 2002/95/EC	
	RoHS Compliant 2002/95/EC" means that the product or part (" of the maximum concentration values in EU Directive 2002/95/E unless the substance is in an application that is exempt under F belief, which may be based in whole or in part on information pr	C, as amended by Commission Decision 2002/618/EC, RoHS. This information represents 3M's knowledge and
Applications	3M Aluminum Foil Tape 1170 is typically a applications in the electronics industry suc shielded rooms, cable wrapping and surfa	ch as static charge draining, seaming
Shielding Effectiveness	Many factors determine true shielding effectiveness of a shielding tape, including type and thickness of foil, adhesive type, intimacy of contact, smoothness of application surface, frequency of the EMI signal, etc. Typical shielding effectiveness for 1170 Tape is >85dB, 1MHz to 2 GHz, ASTMD-4935 test method.	
Typical Properties	Not for specifications. Values are typical, not to Properties measured at room temperature 73°	
Physical	Property (Test Method)	Typical Value US units (metric)
	Color	Silver Metallic
	Adhesive	Acrylic Conductive
	Type of Backing	Aluminum
	Backing Thickness	2.0 mil (0.05mm)
	Total Thickness (ASTM D1000)	3.2 mils (0.081mm)
	Electrical Resistance ¹	0.010 Ω/□
	Flame Retardancy ²	Pass
	Breaking Strength (ASTM D3759)	20 lbs/in (35N/10mm)
	Elongation -% at break	5%
	Adhesion Strength (ASTM D3330)	35 oz/in (3.8N/10mm)
	Temperature Range	-40°C to 130°C
	Shielding Effectiveness ³	>85 dB, 1MHz to 2 GHz
		N/cm2) measured over 1 in2 surface area. Conductive he between the application substrate and the foil backing.

2. UL Recognized for flame retardancy per UL 510, Product Category OANZ2, File E17385

3. ASTMD-4935 Test Method



3MTM Aluminum Foil Tape 1170

Shelf Life & Storage	This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).	
Availability	Please contact your local distributor; available from 3M.com/oem [Where to Buy] or call 1-800-676-8381.	

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