

3M™ Insulating and Conductive Tapes *continued*

Product	Product Description	Features	Total Thickness	Operating Temperature	UL Flame retardant	Dielectric Breakdown	Insulation Resistance	Breaking Strength	Electrical Resistance	Adhesion to Steel	Agency Approvals	
											UL	SAE
Composite Film Tape												
44	3M™ Polyester Film Electrical Tape 44	Economical, general purpose composite film tape. This puncture-resistant tape is tough and conformable with excellent electrical properties. For general purpose insulation, anchoring, and banding in motors and transformers	0.14 mm	130°C		5500 V	>1 x 10 ⁶ MΩ	7 kN/m	71 N/100 mm	✓	✓	
44D-A	3M™ Reinforced Polyester Film Electrical Tape 44D-A	A version of 44 Tape with twice the backing thickness for greater dielectric strength	0.30 mm	130°C		6000 V	>1 x 10 ⁶ MΩ	7 kN/m	38 N/100 mm	✓		
Polyimide Film Electrical Tape												
92	3M™ Polyimide Film Electrical Tape 92	Silicone adhesive and 0.025 mm film. High temperature, puncture resistant, printable, flame retardant. Stable in coils, harnesses and capacitors that are subjected to high temperatures	0.08 mm	180°C	Yes	7500 V	>1 x 10 ⁶ MΩ	5.3 kN/m	28 N/100 mm	✓	✓	
PTFE Film Electrical Tape												
60	3M™ PTFE Film Electrical Tape 60	Translucent, 0.05 mm PTFE film tape with silicone adhesive. For use on high temperature coils, capacitors and wire harnesses. UL510 flame retardant	0.10 mm	180°C	Yes	9500 V	>1 x 10 ⁶ MΩ	3.5 kN/m	32 N/100 mm	✓		
61	3M™ PTFE Film Electrical Tape 61	Translucent, thicker (0.127 mm) PTFE film tape with silicone adhesive. For use on high temperature coils, capacitors and wire harnesses where high dielectric and breaking strength are required. UL510 flame retardant	0.18 mm	180°C	Yes	15000 V	>1 x 10 ⁶ MΩ	7.9 kN/m	38 N/100 mm	✓		
63	3M™ PTFE Film Electrical Tape 63	Translucent, 0.05 mm PTFE film tape with solvent resistant acrylic adhesive. For use on coils, capacitors and wire harnesses. For use where chemical properties are more important than temperature resistance	0.09 mm	155°C	Yes	9500 V	>1 x 10 ⁶ MΩ	3.5 kN/m	38 N/100 mm	✓		
EMI Shielding Tapes												
1170	3M™ Aluminium Foil Tape with Conductive Adhesive 1170	Conductive acrylic adhesive, 0.05 mm aluminium foil	0.08 mm		Yes			3.5 kN/m	0.01 Ω	38 N/100 mm	✓	
1181	3M™ Copper Foil Tape with Conductive Adhesive 1181	Conductive acrylic adhesive, 0.04 mm copper foil	0.07 mm		Yes			4.4 kN/m	0.005 Ω	38 N/100 mm	✓	
1182	3M™ Copper Foil Tape with Conductive Adhesive on both sides 1182	Conductive acrylic adhesive on both sides, 0.04 mm copper foil	0.09 mm		Yes			4.4 kN/m	0.01 Ω	38 N/100 mm	✓	
1194	3M™ Copper Foil Tape with Nonconductive Adhesive 1194	Nonconductive adhesive, 0.07 mm copper foil	0.08 mm		Yes			4.4 kN/m	n/a	51 N/100 mm	✓	
1245	3M™ Embossed Copper Foil Tape 1245	Conductive acrylic adhesive, embossed 0.04 mm copper foil	0.10 mm		Yes			4.4 kN/m	0.001 Ω	38 N/100 mm	✓	



Scotch® Electrical, Industrial & Special Use Tapes