



Static Dissipative 2675 Heat Activated Cover Tape

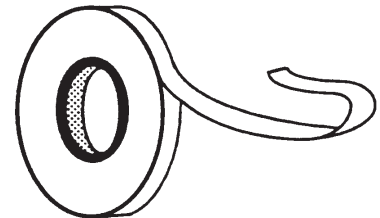
Technical Data – May, 2000

Product Description

3M™ Static Dissipative 2675 Heat Activated Cover Tape is a transparent, two-sided static dissipative, polyester film tape with a heat activated adhesive. 2675 cover tape is designed to seal electrical and electronic components into 3M Non-Conductive 2703 Polycarbonate Carrier, 3M Static Dissipative 2705 Clear Polycarbonate Carrier, and 3M Conductive 3000 Polycarbonate Carrier. It can also be used on some other types of carriers.

Construction

Backing	Adhesive
Transparent polyester film	Heat-activated, synthetic polymer



Available Widths

2675 cover tape is available in the standard sizes shown below:

Standard Sizes, mm Widths

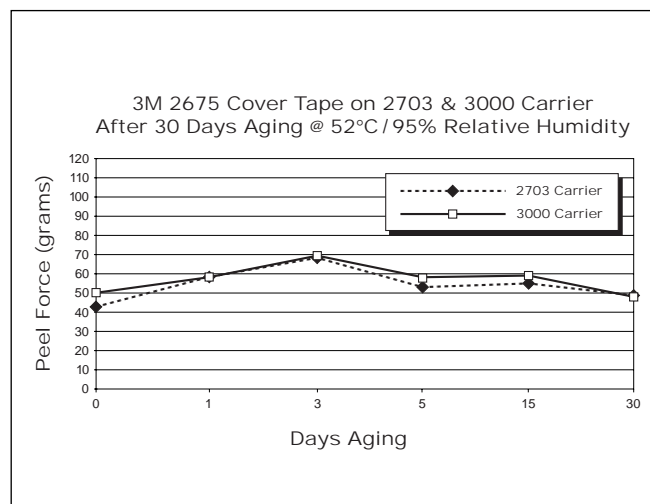
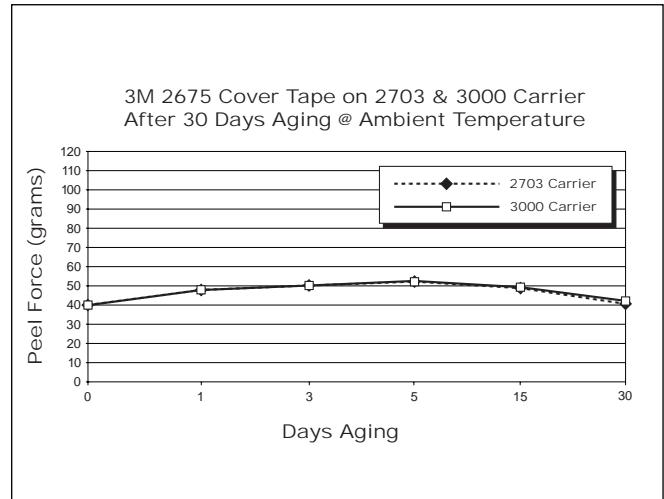
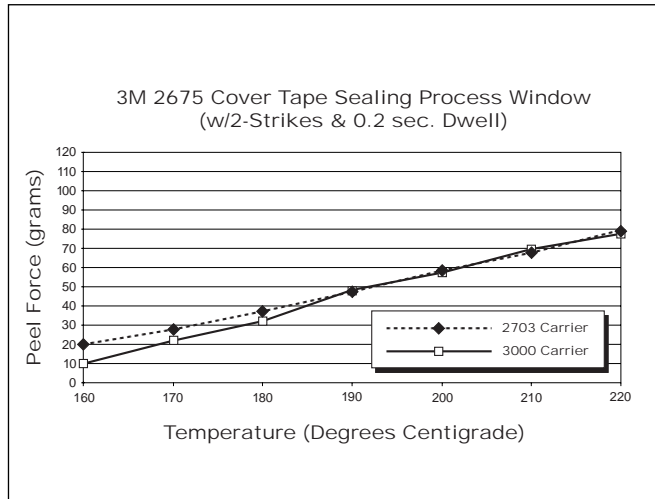
Carrier Tape*	8	12	16	24	32	44	56
Cover Tape	5.4	9.3	13.3	21.3	25.5	37.35	49.35
Roll Length	475 meters						
Roll Diameter	212 mm						
Core	Plastic						

*per EIA-481 Standard

Typical Adhesive Properties

Initial Adhesion and Aging Data

3M™ 2675 Cover Tape has a simple process window. Desirable initial peel force values can be achieved through the application of adequate heat and pressure to the non-adhesive surface of the cover tape over the desired seal area. The following charts depict the typical process and aging characteristics of 2675 cover tape after sealing to 3M carrier tapes.



Note: The technical information and data presented here should be considered representative or typical only, and should not be used for specification purposes

Storage Conditions

3M Static Dissipative 2675 Heat Activated Cover Tape should be stored indoors, in its original packaging, in a controlled climate environment not exceeding 35°C and 70% relative humidity. The product should be protected from direct sunlight and should be used on a “first-in, first-out” basis.

Shelf Life

It is recommended that 3M Static Dissipative 2675 Heat Activated Cover Tape be used within 3 years from the date of manufacture when stored according to the recommended storage conditions.

3M™ Static Dissipative 2675 Heat Activated Cover Tape

Description	Units	Typical Performance	Test Notes	Test Method	
Material Properties	Backing Type Adhesive Type Sealing Temp	Polyester Heat Activated 170-220	1		
Physical Properties	Tensile Strength	N/mm Width	3.1	2	ATSM-D3759
	Elongation	%	75		ATSM-D3759
	Transparency	%	78	3	
	Haze	%	29	3	
	Thickness	mm (in)	.062 (.0024)		ASTM-D3652
Electrical Properties	Resistivity (Backing)	Ohms/sq	10 ¹⁰	4	ASTM-D257
	Resistivity (Adhesive)	Ohms/sq	10 ¹¹	4	ASTM-D257
Product Format	Core Type	Material	Plastic		
	Core Inner Diameter	mm (in)	76.2 (3.0)		
	Roll Diameter	mm (in)	212 (8.3)		
	Roll Length	m (yd)	475 (520)		

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Test Notes

- Sealing temperature will depend upon a number of factors including sealing equipment, dwell time, pressure and carrier material.
- Tensile tests are conducted at 21°C (70°F), 50% RH, in the machine direction of the polyester film.
- Optical properties are measured using light transmission.
- Resistivity is measured after conditioning for 24 hours at 23°C (70°F), 50% RH.
 Backing resistivity specifications: $1 \times 10^8 \leq R_s < 1 \times 10^{11}$ Ohms/sq.
 Adhesive resistivity specifications: $1 \times 10^8 \leq R_s < 1 \times 10^{12}$ Ohms/sq.
 Measurement technique: ETS Model 803B Resistance/Resistivity Probe and ETS Model 278 Resistance/Current Meter Unit.

Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-666-8273. Address correspondence to: 3M Electronic Handling & Protection Division, 6801 River Place Blvd., Austin, TX 78726-9000. Our fax number is 1-800-826-8893.

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