

Static Dissipative Heat Activated Cover Tape 2675

Technical Data – March, 2008

Product Description

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



Construction

Backing	Adhesive
Clear	Heat-Activated
Polyester Film	Synthetic Polymer

Available Widths

Cover Tape 2675 is available in the standard sizes shown below:

Standard Sizes	Widths (mm)						
Carrier Tape*	8	12	16	24	32	44	56
Cover Tape	5.4	9.3	13.3	21.3	25.5	37.4	49.4
Roll Length	480 meters						
Roll Diameter	212 mm						
Core	Plastic						

*per EIA-481-C Standard

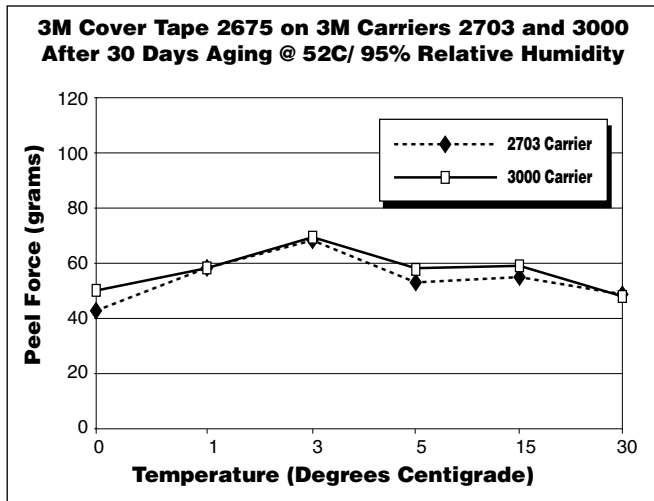
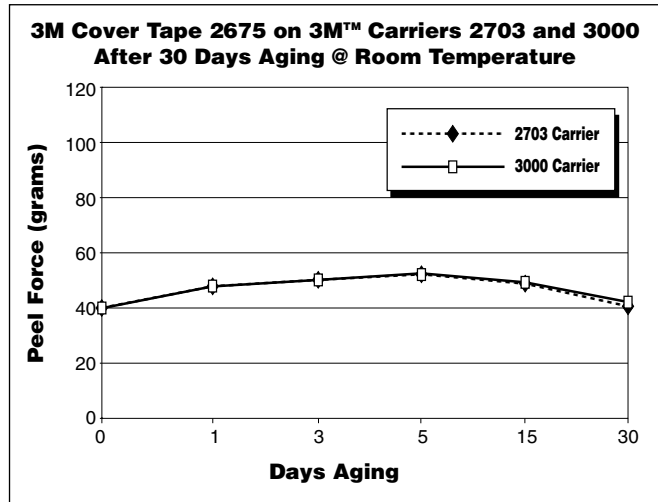
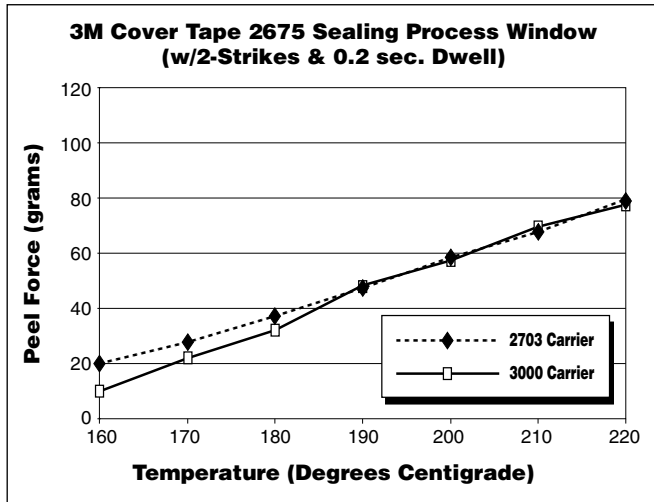
Standard Packaging Format

Cover tape is provided on a plastic core, packaged with high density coated paper wafer inserts and a centering core in a polyethylene bag, and placed between two end-caps in a cardboard carton.



Initial Adhesion and Aging Data

3M™ Static Dissipative Heat Activated Cover Tape 2675 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 3M Cover Tape 2675 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

Cover Tape 2675 should be stored indoors, in its original packaging, in a controlled climate environment not exceeding 35°C (95°F) 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 Cover Tape 2675 be used within three years from the date of manufacture when stored according to the recommended storage conditions.

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Description	Units	Typical Performance	Test Notes	Test Method	
Material Properties	Backing Type	°C	Polyester		
	Adhesive Type		Heat Activated		
	Sealing Temp		170-220	1	
Physical Properties	Tensile Strength	N/mm Width	3.1	2	ASTM-D3759
	Elongation	%	75		ASTM-D3759
	Transmission	%	85.5	3	ASTM-D1003
	Haze	%	30.5	3	ASTM-D1003
	Clarity	%	73.8	3	ASTM-D1003
	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.)	480 (525)		

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Test Notes

1. Sealing temperature will depend upon a number of factors including sealing equipment, dwell time, pressure and carrier material.
2. Tensile tests are conducted at 21°C (70°F), 50% RH, in the machine direction of the polyester film.
3. Optical properties are measured using light transmission.
4. 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.

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