

3M™ Static Dissipative Heat Activated Cover Tape 2679

Technical Data - October 2012

3M Static Dissipative Heat Activated Cover Tape 2679 is a transparent, two-sided static dissipative, polyester film tape with heat activated adhesive. 3M Cover Tape 2679 is designed to seal electrical and electronic components into 3M™ Conductive Polycarbonate Carrier 3000 and 3M™ Non-Conductive Polycarbonate Carrier 2703. It also works well with other polycarbonate embossed carrier tapes.



3M™ Static Dissipative Heat Activated Cover Tape 2679

Construction

Backing	Adhesive
Transparent Film	Heat-Activated, Synthetic Polymer

Available Widths

3M Cover Tape 2679 is available in the standard widths listed below:

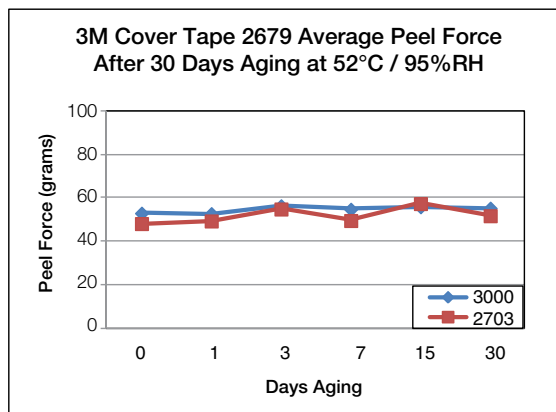
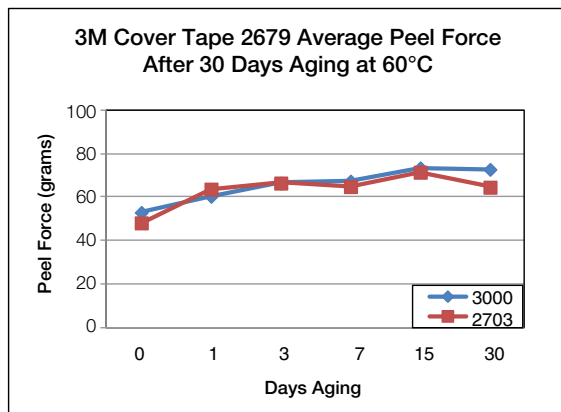
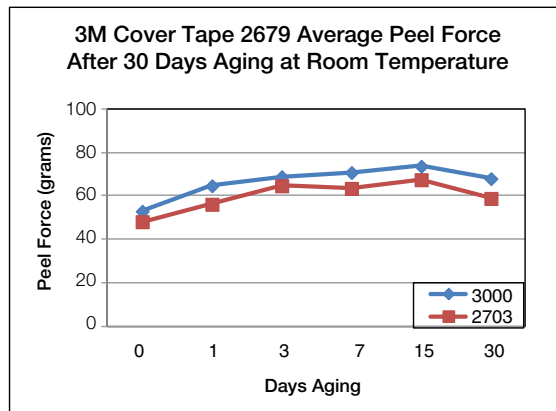
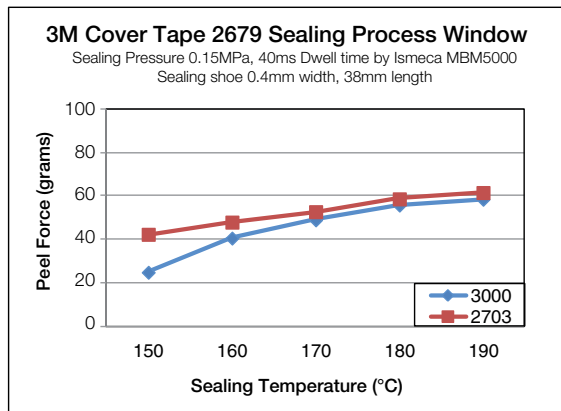
Standard Sizes, (mm) Width							
Carrier Tape*	8	12	16	24	32	44	56
Cover Tape	5.4	9.3	13.3	21.3	25.5	37.4	49.4
Roll Length	480 meters						
Roll Diameter	202mm						
Core	Plastic						

*per EIA-481-D Standard



Initial Adhesion and Aging Data

3M™ Static Dissipative Heat Activated Cover Tape 2679 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 2679 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 Cover Tape 2679 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 3M Cover Tape 2679 be used within two years from manufacture date when stored according to the recommended storage conditions.



3M™ Static Dissipative Heat Activated Cover Tape 2679

Description	Type	Unit	Typical Performance	Test Notes	Test Method
Material Properties	Backing Type		Polyester		
	Adhesive Type		Heat Activated		
	Sealing Temperature		150~220	1	
Physical	Tensile Strength	MPa	60	2	ASTM-D3759
	Elongation	%	80	2	ASTM-D3759
Visual	Transmission	%	82	3	ASTM-D1003
	Haze	%	10	3	ASTM-D1003
	Thickness	um	50		ASTM-D3652
Electrical	Resistivity (Backing)	Ohms/sq	10 ⁹	4	ASTM-D257
	Resistivity (Adhesive)	Ohms/sq	10 ⁹	4	ASTM-D257
Product Format	Core Type	Material	Plastic		
	Core Inner Diameter	mm	76.2		
	Roll Diameter	mm	202		
	Roll Length	meters	480		

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

For wafer level chip scale packaging application, 3M recommends standard Pressure Sensitive Adhesive (PSA) Cover Tape for bare die and wafer level chip scale packaging applications.

Test Notes:

1. Sealing Temperature will depend upon a number of factors including sealing equipment, dwell time, pressure and carrier materials.
2. Tensile tests are conducted at 23° C (73° F), 50% RH, in the machine direction of the polyester film.
3. Optical properties are measured using a BYK-Gardner Haze-Gard Plus Transmission Meter, Model 4727.
4. Resistivity is measured at 23° C (73° F), 50% RH.

Adhesive resistivity specifications: $1 \times 10^5 \leq R_s \leq 1 \times 10^{11}$ Ohms/sq.

Backing resistivity specifications: $1 \times 10^5 \leq R_s \leq 1 \times 10^{11}$ Ohms/sq.

Measurement technique: Trek Model 152 Surface Resistance Meter and Trek Model 152P-CR Concentric Ring Probe.

3M is a trademark of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



Electronic Solutions Division Tape & Reel Products

6801 River Place Blvd.
Austin, TX 78726-9000
Toll-Free: 800-MMM-TAPE (800-666-8273)
Fax: 800-826-8893
Email: transportcustomer@mmm.com
www.3Mtapeandreel.com

Please recycle.
© 3M 2012. All rights reserved.
80-6111-0248-6