

3M™ Static Dissipative Heat Activated Cover Tape 2678

Product description

3M™ Static Dissipative Heat Activated Cover Tape 2678 is a transparent, two-sided static dissipative, polyester film tape with a heat activated adhesive. 3M cover tape 2678 is designed to seal electrical and electronic components into 3M's family of polycarbonate carriers. It also works well with certain other embossed carrier tape.

Construction

Backing	Adhesive
Clear polyester film	Heat-activated, synthetic polymer

Available widths

3M cover tape 2678 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						
Core	Plastic						

* per EIA-481-E Standard

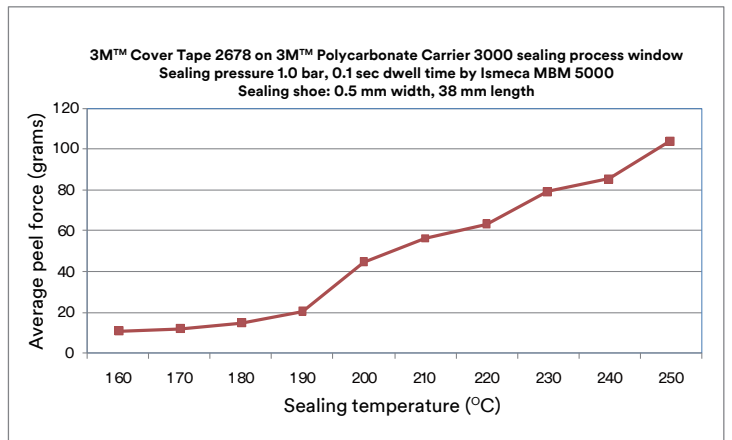
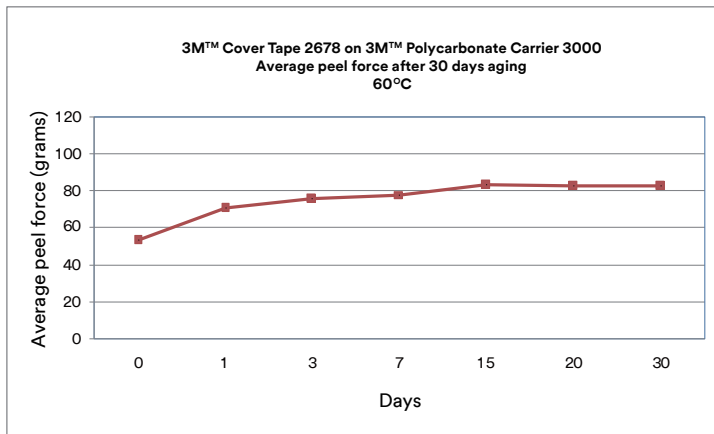
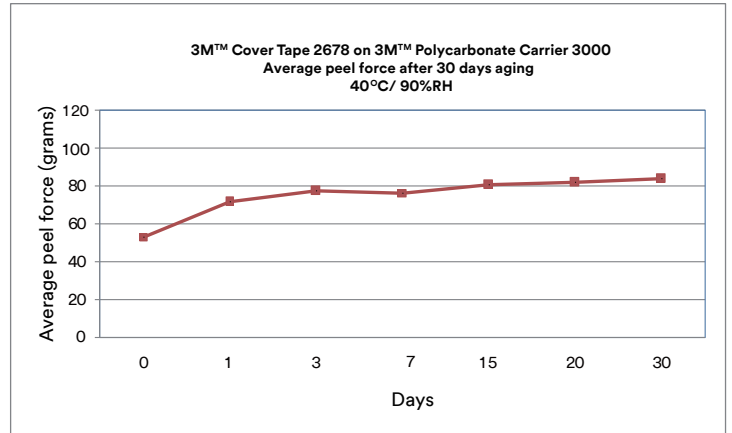
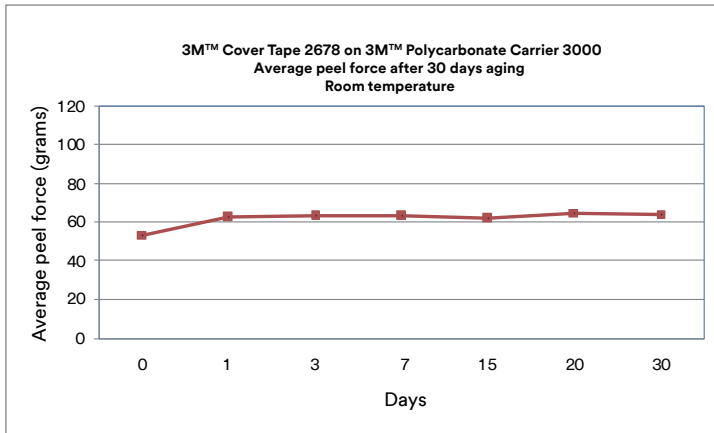
** Other roll lengths may be available, please consult your 3M representative for more information.

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Initial adhesion and aging data

3M™ Static Dissipative Heat Activated Cover Tape 2678 has a simple process window. Desirable initial peel force values can be achieved with the application of adequate heat and pressure to the non-adhesive surface of the cover tape over the preferred seal area. The following charts depict the typical process and aging characteristics of 3M cover tape 2678 after sealing to 3M™ Polycarbonate Carrier 3000.

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



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Typical physical properties and performance characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Final product specifications and testing methods will be outlined in the products Certificate of Analysis (COA) that is provided once the product is approved by 3M for general commercialization and development work is completed.

Description	Units	Typical performance	Test notes	Test method
Material properties				
Backing type		Polyester		
Adhesive type		Heat activated		
Sealing temp	°C	170~220	1	
Physical properties				
Tensile strength	Mpa	50	2	Modified ASTM-D3759
Elongation	%	100	2	Modified ASTM-D3759
Haze	%	13.6	3	ASTM-D1003
Clarity	%	92.4	3	ASTM-D1003
Transmission	%	88.2	3	ASTM-D1003
Thickness	mm (in)	0.062 (0.0024)	2	Modified ASTM-D3652
Electrical properties				
Resistivity (Back side)	Ohms/sq	10 ⁹	4	JIS K-6911
Resistivity (Component side)	Ohms/sq	10 ⁹	4	JIS K-6911
Product format				
Core type	Material	Plastic		
Core inner diameter	mm (in)	76.45 (3.0)		
Roll diameter	mm (in)	219 (8.62)		
Roll length	m (yd)	480 (525)		

Test notes

1. Sealing temperature will depend on a number of factors including sealing equipment, dwell time, pressure and carrier material.
2. Tensile tests and thickness measurement are conducted at 21°C (70°F), 70% RH, in the machine direction of the polyester film.
3. Optical properties are measured using the BYK-Gardner Haze-Gard Plus Transmission Meter, Model 4725.
4. Resistivity is measured at room temperature by resistance meter.

Storage conditions and shelf life

3M™ Static Dissipative Heat Activated Cover tape 2678 should be stored indoors, in its original packaging, in a controlled climate environment ranging 22°C - 28°C (72°F - 82°F) and not exceeding 70% relative humidity. The product should be protected from direct sunlight and should be used on a “first-in, first-out” basis.

The shelf life of 3M cover tape 2678 is two years from the date of manufacture when stored according to the recommended storage conditions.

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Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is commercially available from 3M. The commercially available product will have a COA specification established. The COA contains the 3M specifications and test methods for the products performance limits that the product will be supplied against. The 3M product is supplied to 3M COA test specifications and the COA test methods. Contact your local 3M representative for this product's COA.

This technical data sheet may contain preliminary data and may not match the COA specification limits and/or test methods that may be used for COA purposes.

Final product specifications and testing methods will be outlined in the products Certificate of Analysis (COA) that is shipped with the commercialized product.

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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