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Static Dissipative Clear Heat Activated Cover Tape 2678

Technical Data – March, 2007

Product Data

3M™ Static Dissipative Clear 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™ Conductive Polycarbonate Carrier Tape 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 2678 is available in the standard widths listed below:

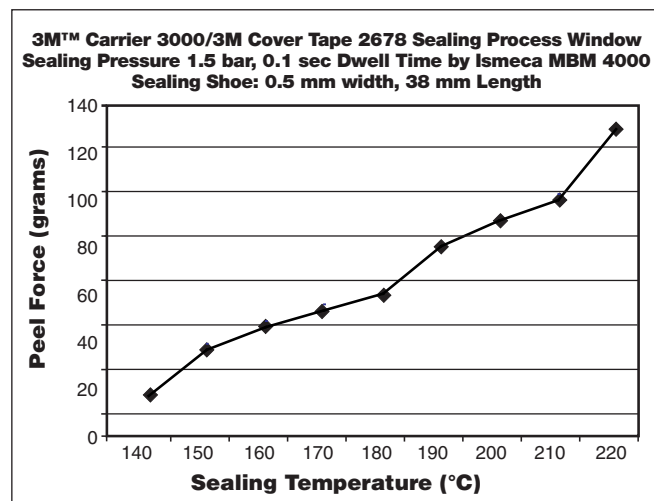
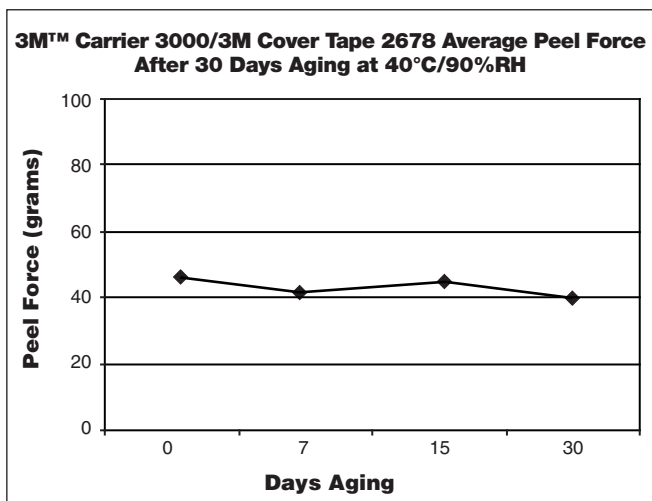
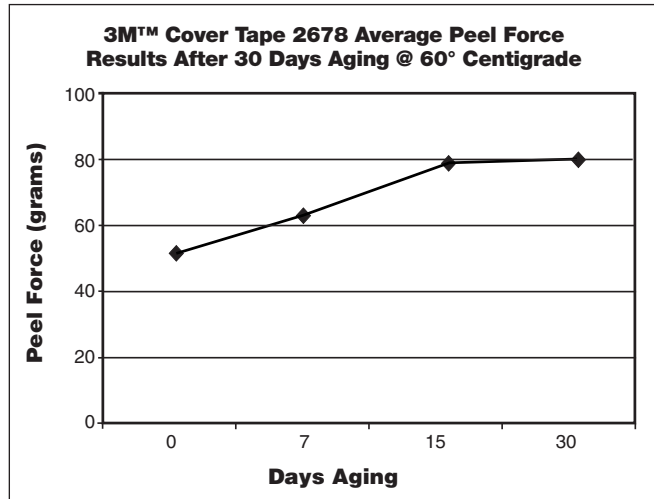
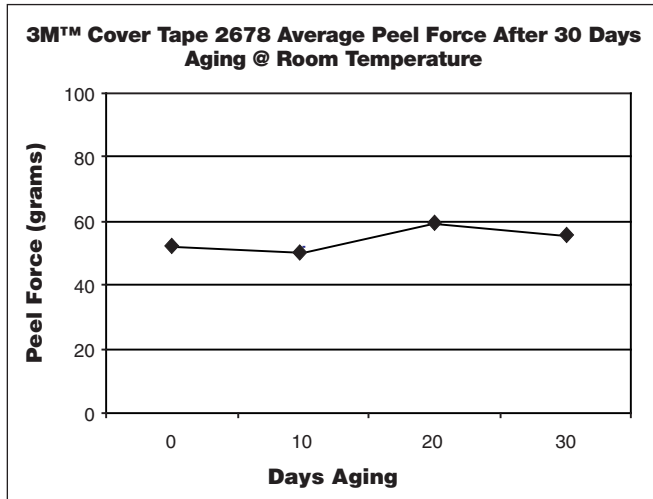
Standard Sizes, (mm) Width						
*Carrier Tape	8.0	12	16	24	32	44
Cover Tape	5.4	9.5	13.3	21.3	25.5	37.5
Roll Length	480 meters					
Roll Diameter	215 mm					
Core	Plastic (White)					

*per EIA-481-C Standard



Initial Adhesion and Aging Data

3M™ Static Dissipative Clear Heat Activated Cover Tape 2678 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 2678 after sealing to 3M™ Conductive Polycarbonate Carrier Tape 3000.



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 2678 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 2678 be used within two years from the date of manufacture when stored according to the recommended storage conditions.

3M™ Static Dissipative Clear Heat Activated Cover Tape 2678

Description	Units	Typical Performance	Test Notes	Test Method	
Material Properties	Backing Type Adhesive Type Sealing Temp	°C	Polyester Heat Activated 150-220	1	
Physical Properties	Tensile Strength (Breaking) Elongation Transmission Haze Clarity Thickness	MPa % % % % mm	50 70 83.4 27 84.1 0.062	2 3 3	JIS K-7127 JIS K-7127 JIS K-7105 Method A JIS K-7105 Method A
Electrical Properties	Resistivity (Backing) Resistivity (Adhesive)	Ohms/sq Ohms/sq	10° 10°	4 4	JIS K-6911 JIS K-6911
Product Format	Core Type Core Inner Diameter Roll Diameter Roll Length	Material mm mm m	Plastic 76.2 212 480		

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

Test Notes

- Sealing temperature will depend upon a number of factors including sealing equipment, dwell time, pressure and carrier material
- JIS K-7127 No. 4 test piece, speed: 200 mm/min
Tensile tests are conducted at 23°C, 50% RH, in the machine direction of the polyester film.
- Optical properties are measured using light transmission equipment
- JIS K-6911 voltage: 500V measuring time: 60 sec
Resistivity is measured after conditioning for 24 hours at 23°C, 50% RH
Backing resistivity specifications: $1 \times 10^8 < R_s < 1 \times 10^{11}$ Ohms/sq.
Adhesive resistivity specifications: $1 \times 10^8 < R_s < 1 \times 10^{11}$ Ohms/sq.