

3M™ Static Dissipative Heat Activated Cover Tape 2690

Product Description

3M™ Static Dissipative Heat Activated Cover Tape 2690 is a transparent, two-sided static dissipative, polyester film tape with a heat activated adhesive. 3M cover tape 2690 seals electrical and electronic components into 3M's family of polycarbonate carriers. It also works well with certain other embossed carrier tapes.

Key Features

- Better optical clarity, haze and transmission rate
- Better heat sensitivity

Product Construction/Material Description

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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Backing	Adhesive
Clear polyester film	Heat-activated synthetic polymer

Available Widths

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-F Standard.

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

Typical Application

Packaging and transporting electrostatically sensitive chips and semiconductor components.

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Typical Physical Properties and Performance Characteristics

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Description	Type	Units	Typical Performance	Test Notes	Test Method
Material properties	Backing type		Polyester		
Material properties	Adhesive type		Heat activated		
Material properties	Sealing temp	°C	140~190	1	
Physical properties	Tensile strength	MPa	62	2	Modified ASTM-D3759
Physical properties	Elongation	%	100	2	Modified ASTM-D3759
Physical properties	Haze	%	13	3	ASTM-D1003
Physical properties	Clarity	%	90.0	3	ASTM-D1003
Physical properties	Transmission	%	90.0	3	ASTM-D1003
Physical properties	Thickness	mm (in)	0.050 (0.0019)	2	Modified ASTM-D3652
Electrical properties	Resistance (Back side)	Ohms	2.2×10^{10}	4	Reference ANSI/ESD S541
Electrical properties	Resistance (Component side)	Ohms	2.9×10^8	4	Reference ANSI/ESD S541
Product format	Core type		Plastic		
Product format	Core inner diameter	mm (in)	76.2 (3.0)		
Product format	Roll diameter	mm (in)	200 (7.8)		
Product format	Roll length	m (yd)	480 (525)		

Test notes:

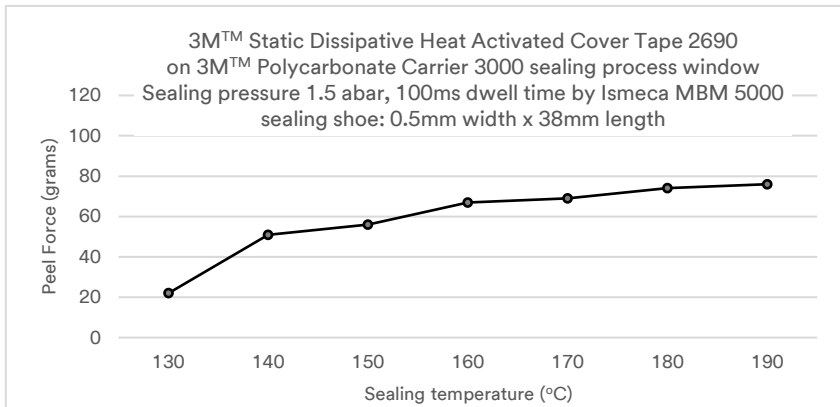
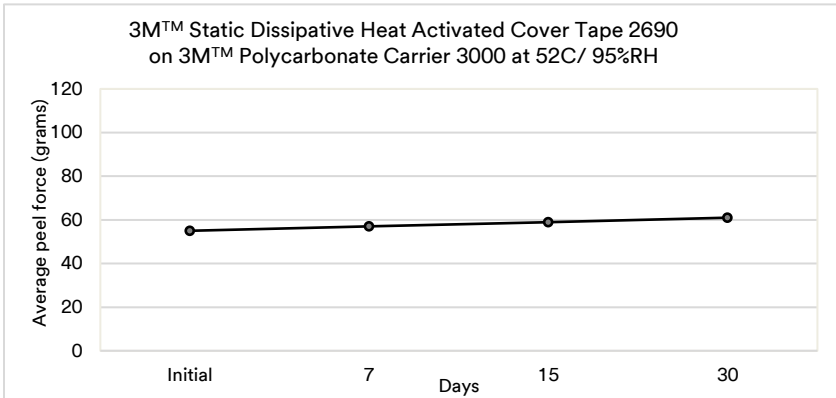
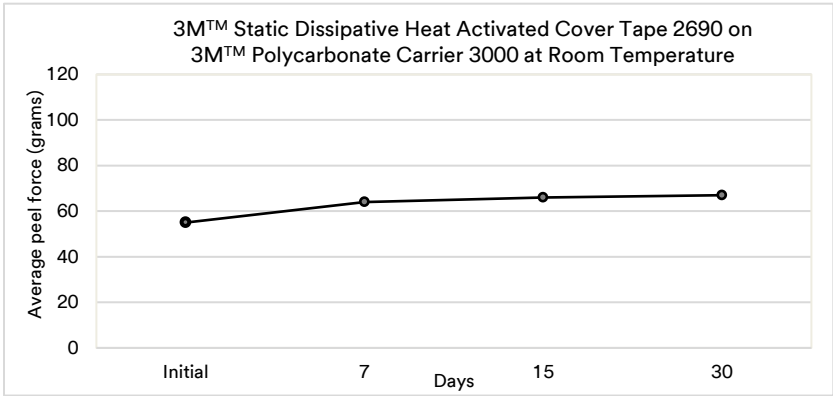
1. Sealing temperature will depend on a number of factors including sealing equipment, dwell time, pressure and carrier material.
2. Tensile tests and thickness measurement are conducted at 21°C (70°F), 70% RH, in the machine direction of the polyester film.
3. Optical properties are measured using the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

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Initial Adhesion and Aging Data

3M™ Static Dissipative Heat Activated Cover Tape 2690 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 2690 after sealing to 3M™ Carrier Tapes.

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Storage and Shelf Life

3M™ Static Dissipative Heat Activated Cover tape 2690 should be stored indoors, in its original packaging, in a controlled climate environment at below 25°C (77°F) and not exceeding 65% 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 2690 is two years from the date of manufacture when stored according to the recommended storage conditions.

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and deemed commercially available from 3M. The COA contains the 3M test methods, specifications limits and test results for the product's performance attributes that the product is supplied against. Contact your local 3M representative for this product's COA.

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

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Electronics Materials Solutions Division
3M Center, Building 223-3S-32
St. Paul, MN 55144
1-800-251-8634 phone
651-778-4244 fax
www.3M.com/electronics

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