



Technical Data Sheet

3M™ Venture Tape™ Double Coated High Tack Film Tape 3693FLE



Product Details



Regulatory Info/SDS

Product Description

3M™ Venture Tape™ Double Coated High Tack Film Tape 3693FLE is a thin, nylon film coated on both sides with an aggressive, cold weather acrylic pressure sensitive adhesive (PSA). A high performance tape designed as a self adhesive closure system on the longitudinal lap of jacketed pipe insulation (SSL – self seal lap) as well as a temporary closure system for PVC jacketing. 3M™ Venture Tape™ Double Coated High Tack Film Tape 3693FLE also has excellent adhesion to many plastics, treated paper, metals and composite materials subjected to a variety of demanding conditions.

Product Features

- Thin nylon film
- Excellent peel and tack
- Humidity and temperature resistance
- Excellent performance over a broad range of temperatures

Technical Information Note

Peel adhesions are based on 180 degree peel at room temperature to stainless steel, 20 minute dwell at room temperature

Typical Physical Properties

Attribute Name	Test Method	Test Condition	Value
Color			Clear
Adhesive Type			Cold weather acrylic
Adhesive Carrier			Nylon film
Adhesive Thickness	PSTC-133	Faceside	0.04 mm (1.5 mil)
Adhesive Thickness	PSTC-133	Backside	0.05 mm (1.85 mil)
Total Tape Thickness			0.1 mm (4 mil)
Liner			White, 50# paper
Available Formats			Available in FLE (finger lift edge) options

Typical Performance Characteristics

Attribute Name	Test Method	Dwell Time	Value
Peel Adhesion (Backside)	PSTC-101	20 min	16.7 N/25.4mm (60 oz/in)
Peel Adhesion (Faceside)	PSTC-101	20 min	11.1 N/25.4mm (40 oz/in)
Shear Adhesion	PSTC-107		>24 h @ 15.2 kPa
Shear Adhesion	PSTC-107		>24 h ¹
Elongation	PSTC-131		110 %
Tensile Strength	PSTC-131		90.4 N/25.4mm (20 lb/in)

¹ @2.2 psi

Attribute Name	Value
Long Term Temperature Resistance	121 °C (250 °F) ¹
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) ¹

¹ Long Term (day, weeks)

Special Considerations

The extended liner provides a dry edge on both edges of the tape for easy liner removal. Stated product widths include the dry edge of the liner.

- Liner side adhesive: The width of the adhesive on the liner side is narrower than the liner by the amount of the dry edge/s.
- Exposed side adhesive: The adhesive on the exposed side is the full width of the product and liner. This helps to establish increased differential in adhesion of the exposed side vs the liner side to further aid in easy removal of the liner.

Storage and Shelf Life

It is suggested that products are stored at room temperature conditions of 70°F (21°C) and 50% relative humidity. If stored properly, product retains its performance and properties for 18 months from date of manufacture. Note: The shelf life may be shortened if the original packaging is not properly sealed or stored in an environment with high temperatures or humidity.

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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