

Medical Materials & Technologies

3M™ Medical Tape, 4578, Polyester Spunlace Nonwoven Extended Wear

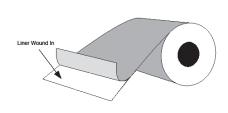
Product Description

This spunlace polyester nonwoven fabric medical tape on a roll (4578) consists of a white spunlace polyester nonwoven backing, coated with a pressure sensitive acrylic adhesive used for longer wear applications. 4578 was designed for applications that require packaging the skin contact adhesive without a protective release liner and still retain the adhesion needed for several weeks wear time. May be used for health care medical devices.

Features and Benefits

- Extended Wear Acrylate Adhesive
- Safe for use on intact skin and non-sensitizing
- Flexible, conformable, extensible backing
- Excellent Skin Adhesion
- Able to adhere to low surface energy (LSE) material
- Skin-friendly during extended wear, acceptable skin Breathable condition after removal
- Wear time up to 28 days
- Able to be worn in wet conditions
- ETO Sterilization Compatible
- Extended storage capability in liner-free medical device applications

Composition



Release liner	~3.3 mil [~0.08 mm] 60 lbs. Bleached Super Calendared Kraft (SCK) Paper Liner, Single Coated Silicone Release
Adhesive	~4 mil [~0.10 mm] 3M Medical Extended Wear Acrylate Adhesive
Backing	~10mil [0.25mm] 100% Polyester White Spunlace Nonwoven, Printable

Roll Description	
Roll Length Maximum <2"	250 yds (229 m)
Roll Length Maximum >/= 2"	500 yds (457 m)
Roll Length Minimum	25 yds (22.9 m)
Roll Width Maximum	23 in (58 cm)
Roll Width Minimum	1 in (25 mm)

Splices per Roll	Maximum:	
	4 per 1-100 yds (1-91 m)	
	6 per 101-200 yds (92-183 m)	
	8 per 201-300 yds (184-274 m)	
	10 per 301-400 yds (275-366 m)	
	12 per 401-500 yds (367-457 m)	

Adhesion, Liner Release				
Adhesion to Low Density Polyethylene (LDPE), 180° Peel	35 oz/in (0.11 N/cm)			
Liner Release, 180° Peel	60 gm/in (0.23 N/cm)			

Represents a typical value Based on limited production data

Biocompatibility Testing

Product 4578 has been subjected to the following safety evaluations.

Study Type	Test method	Standard	Result
Cytotoxicity	Agar overlay	ISO 10993-5	Not cytotoxic
Cytotoxicity	MEM Elution	ISO 10993-5	Not cytotoxic
Skin Irritation	ISO Skin Irritation Study in Rabbits	ISO 10993-10	Non-Irritating
Sensitization	ISO Guinea Pig Maximization Sensitization	ISO 10993-10	Non-Sensitizing

Recommended Storage Conditions & Shelf Life

Product as supplied by 3M in original packaging will maintain stated properties for a period of two (2) years from date stamped on shipping container when stored at temperatures of 50-80°F (10-27°C) and a relative humidity between 40-60 percent. Product should be stored in the original packaging out of direct sunlight or high intensity indoor lighting.

Conditions based on 3M internal studies may not be representative of actual end use/performance and we recommend our OEM customers run their own studies using their device design.

Product and Safety Information: User is solely responsible for determining the suitability of 3M samples and products for the intended use including any necessary safety or toxicity assessment. 3M will provide Material Safety Data Sheets or equivalent and summary results of biocompatibility testing upon request. In every case before using any product in full scale production users should conduct their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions.

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Limitation of Remedies: If products are proven not to meet 3M's specifications, the sole and exclusive remedy available and 3M's only obligation shall be, at 3M's option, to replace such quantity of Products which are proven out of specification or to refund the purchase price paid for Products.

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Ordering Information

To place an order, call our Customer Service at: 800-742-1994 (U.S.). For all orders outside the United States, please contact your local country representative or check out 3M.com/MedTechFindaRep for your region's contact information.

To have a sales representative contact you, to request samples or clinical and safety summaries, please contact us at 3M HELPLINE 800-228-3957 (U.S.) or check out **3M.com/MedTechContactUs** for your region's contact information.

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