



www.marianinc.com
1-800-773-0062

MedTech OEM Segment

Solventum™ Medical Tape, 4579 Single Sided Polyurethane Extended Wear

Product Description

Medical Single Coated Tape 4579 consists of proprietary pressure sensitive extended wear tackified acrylate adhesive with a translucent polyurethane film backing and translucent polyethylene film carrier. May be used for healthcare medical devices. Solventum 1567 recommended for bonding components to the backside of 4579.

Features and Benefits

- Biocompatible
- Extended Wear Tackified Acrylate Adhesive
- Thin Flexible Conformable Extensible
- Breathable
- Translucent
- Fluid Resistant
- Good Adhesion to Backing
- EtO Sterilization Compatible
- Printable Backing and Liner
- General Medical Device Use

Composition

Carrier	~2.8 mils (~70 µm) Clear Polyethylene Film
Backing	~0.6 mils (~15 µm) Clear Polyurethane Film
Adhesive	~3.2 mils (~81 µm) Medical Grade Extended Wear Tackified Acrylate Adhesive
Release Liner	~3.3 mils (~84 µm) Bleached Super Calendared Kraft (SCK) Paper Liner, Silicone Release Coated One Side

Wind Orientation: Paper adhesive liner out, film carrier in

Roll Description	
Roll Length Maximum*	250 yds (228 m)
Roll Length Minimum	25 yds (22.9 m)
Roll Width Maximum	23.625 in (600 mm)
Roll Width Minimum	1 in (25 mm)
Splices per Roll Maximum	2 per 1-100 yds (1-91 m), 3 per 101-200 yds (92-183 m), 4 per 201-300 yds (184-274 m), 5 per 301-400 yds (275-366 m), 6 per 401-500 yds (367-457 m)

*Roll length maximum depends on Solventum slitting location check with your Solventum account manager if longer lengths are available.

Typical Properties			
Adhesion to Low density Polyethylene (LDPE), 180° Peel (No Dwell)	6.4 N/cm	1658 gmf/2.54cm	59 ozf/in
Liner Release, 180° Peel	0.08 N/cm	21 gmf/2.54cm	0.73 ozf/in
Carrier Release, 180° Peel	0.03 N/cm	7.8 gmf/2.54cm	0.27 ozf/in

Test results, length, and width (minimum and maximum) represent typical values and should not be used for specification purposes.

1 N = ~102 gmf or ~3.6 ozf, 2.54 cm = ~1 inch.

Adhesion data for an adhesive/backing combination from a specified substrate can be impacted by dwell time, temperature, humidity, peel-angle and peel-speed.

Biocompatibility Testing

Product 4579 has been subjected to the following safety evaluations.

Study Type	Tested Method	Standard	Results
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 10993-23	Irritation Response Categorized as Slight
Sensitization	ISO Guinea Pig Maximization Sensitization	ISO 10993-10	Non-Sensitizing

Required Long Term Storage Conditions & Shelf Life*

Product supplied by Solventum in original packaging will maintain stated properties for a period of one (1) year from date stamped on the shipping container when stored at temperatures of 50-80°F (10-27°C) and a relative humidity less than 60 percent. Product should be stored in the original packaging out of direct sunlight or high intensity indoor lighting.

*Shelf life relates to the Solventum warranty period for product performance compliant with release specification. When the product is converted in any way, the shelf life of the converted part and/or the shelf life of the end device that the product is incorporated into should be established by OEM customers. Storage conditions based on Solventum internal studies; these may not be representative of actual storage conditions for end use/material incorporated in medical devices. We recommend our OEM customers run their own studies using their device design and required storage conditions.

Product and Safety Information: User is solely responsible for determining the suitability of Solventum samples and products for the intended use including any necessary safety or toxicity assessment. Solventum 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.

Notice: Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement, or recommendations to practice any invention covered by any patent, without authority from the owners of this patent.

Warranty Information: All statements, technical information and recommendations herein are based on tests Solventum believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Solventum warrants only that products will meet Solventum's specifications at the time of shipment to the customer. Solventum does not offer any other warranty and does not warrant the performance, safety or such other characteristics of products in combination with other materials. Solventum specifically DOES NOT warrant products for any intended or unintended uses (whether or not foreseeable); for compatibility or suitability with other components or compatibility with any methods of manufacture or conversion. The foregoing warranty is made in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability, fitness for a particular purpose and freedom from non-infringement.

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

Limitations of Liabilities: The remedies provided herein are exclusive remedies against Solventum for any alleged or actual nonconformance to specifications or defect or other failure in products or for Solventum's performance of its supply obligations. Under no circumstances is Solventum liable for any direct, indirect, incidental, special or consequential damages (including lost profits) in any way related to the product under any theory of law including, but not limited to, negligence and strict liability.

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 go.Solventum.com/MedTechOEM 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 Solventum HELPLINE 800-228-3957 (U.S.) or go.Solventum.com/MedTechOEM.

Visit our website: go.Solventum.com/MedTechOEM for product and services information, news, events, new product highlights or to make a direct inquiry.



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