PERFORMANCE GUIDE

Revised: 8/2020 JNP

PRODUCT: **TM5170HCW**

PRODUCT DESCRIPTION

TM5170HCW is a 1 mil transparent polyurethane film coated on one side with 3.0 mil of skin friendly breathable medical grade acrylic adhesive. The polyurethane film is supported by a 2.0 mil gloss polyethylene carrier and is protected by a 60# polycoated release liner.

TM5170HCW is designed for use in applications where comfort, conformability and moisture vapor transmission is desired. Typical uses include: incise drape, I.V. securement, surgical drape & garment, device over- laminate, wound covering and wound dressing.

PRODUCT CONSTRUCTION

Carrier: 1.0 mil transparent polyurethane film supported by a 2.0 mil gloss polyethylene carrier.

Adhesive: Breathable medical grade acrylic adhesive has been formulated for sustained contact with human skin. It has been assessed by an independent bio-medical laboratory following ISO-10993 guidelines for skin contact properties. Specific test procedures and results are available upon request.

Liner: 60# polycoated bleached kraft with a silicone release coating on one side.

PHYSICAL PROPERTIES

Values given are typical and are not for use in specifications

Performance Test	Unit of Measure	Typical Values	Testing Method
MVTR	**g / m² / 24 hour**	**750 - 900**	**Upright Cup (40°C, ambient RH)**
180° Peel Stainless Steel 30 minute dwell 24 hour dwell	**lbs./in width** *(N/25mm)*	**6.2** *(27.3)* **5.6** *(24.6)*	**PSTC – 101 (Method A)**
Loop Tack	**lbs./in²** *(N/25mm)*	**2.9** *(12.8)*	**PSTC - 16**
Shear 1kg @ 72°F	**hours**	**300**	**PSTC – 107**
Tensile	**lbs./in²** *(N/25mm)*	**6500** *(28,900)*	**ASTM – D882**
Elongation	**percent %**	**650**	**ASTM – D882**
Thickness Carrier & adhesive Liner	**inches** *(microns)*	**.006** *(127)* **.0045** *(114.3)*	

**Tensile and Elongation values are for the carrier only*.

TEMPERATURE RANGE

This product is intended for use at ambient temperatures.

ATTRIBUTES

- Intended for long term use (3 days)
- Monolithic and breathable providing a liquid barrier while allow moisture vapor to escape.
- Highly conformable with soft skin feel
- Excellent stretch and recovery properties
- Durable, good abrasion resistance
- Good chemical resistance
- Sterilizable

SHELF LIFE

Two year shelf life when stored at 75°F. (24°C.) and 50% relative humidity or less. It is recommended that the product be stored in its original package until ready to use.

STATEMENT OF RECOMMENDATION

This product should be tested thoroughly in final converted form under end-use conditions to ensure it meets the requirements of the specific application.

** Values given are typical for unprocessed product and are not for use as specifications. Processing may change the values.*

CALL **1-800-255-9733 for additional product information**

IMPORTANT NOTICE: The information given and recommendations made herein are based on our research and are believed to be accurate. In every case, user shall determine before using any product in full scale production, whether such product is suitable for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or any other warranty, expressed or implied. No representative of ours has any authority to waive or change the foregoing provisions unless in a specific agreement signed by the officers of seller and manufacturer. Ultimately, sellers and manufacturers only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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