



# PERFORMANCE GUIDE

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**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 1.0 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 / m <sup>2</sup> / 24 hour	750 - 900	Upright Cup (40°C, ambient RH)
<b>180° Peel Stainless Steel</b>			
30 minute dwell	lbs./in width	6.2 (27.3)	PSTC – 101 (Method A)
24 hour dwell	(N/25mm)	5.6 (24.6)	
Loop Tack	lbs./in <sup>2</sup> (N/25mm)	2.9 (12.8)	PSTC - 16
Shear 1kg @ 72°F	hours	300	PSTC – 107
Tensile	lbs./in <sup>2</sup> (N/25mm)	6500 (28,900)	ASTM – D882
Elongation	percent %	650	ASTM – D882
<b>Thickness</b>			
Carrier & adhesive	inches (microns)	.006 (127)	
Liner		.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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