



# PERFORMANCE GUIDE

Revised: 6/2015 JNP

**PRODUCT:** MD1101

## PRODUCT DESCRIPTION

MD1101 is a single coated printable 1.0mil PET with Mactac's non-migratory, non out-gassing chemically inert Response acrylic adhesive system. The product is supplied with a 40# C1S White SCK liner.

MD1101 is designed for use in the following applications: medical in-vitro diagnostic/immunoassay devices, high-end electronic gasket/bonding tapes, membrane switch, high-end optical applications and window sealing and mounting.

## PRODUCT CONSTRUCTION

**Carrier:** 1.0 mil clear gloss PET chemically treated for ink adhesion.

**Adhesive:** 2.2 mils of Response-02 medical grade acrylic adhesive. This adhesive has been assessed by an independent bio-medical laboratory and meets ISO-10993 guidelines for direct skin contact. Reponse-03 has been evaluated by an independent laboratory for FDA 21 CFR175.105 and 21 CFR176.180 for food packaging. Headspace GC analysis shows this adhesive is low-outgassing and contains no VOC's.

**Liner:** 40# White C1S SCK

## PHYSICAL PROPERTIES

Values given are typical and are not necessarily for use in specifications.

Performance Test	Unit of Measure	Typical Values	Testing Method
<b>180° Peel Stainless Steel</b>			
30 minute dwell	<b>oz./in width</b>	<b>104.00 (28.6)</b>	<b>PSTC-101-Method A</b>
24 hour dwell	<i>(N/25mm)</i>	<b>115.20 (31.7)</b>	
<b>Loop Tack</b>	<b>oz./in<sup>2</sup> (N/25mm)</b>	<b>45.6 (12.54)</b>	<b>PSTC-16- Method A</b>
<b>Shear 1kg @ 72°F</b>	<b>hours</b>	<b>75+</b>	<b>PSTC-107-Method A</b>
<b>Thickness</b>			
Carrier & Adhesive	<b>inches (microns)</b>	<b>.0032 (80.0)</b>	

## **TEMPERATURE RANGE**

Application Temperature: 45°F - 120°F

Service Temperature Range: -35°F - 300°F

## **ATTRIBUTES**

- Intended for use in medical diagnostic devices, high-end electronic and optical applications
- Non-outgassing and non-migratory
- Chemically inert
- Broad temperature range
- Good adhesion to a wide range of surfaces
- Excellent cohesive strength
- Sterilizable by all methods including gamma, EtO, autoclave and e-Beam.

## **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.

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

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