



# PERFORMANCE GUIDE

Revised: 9/2015 JNP

**PRODUCT:** MD2111

## PRODUCT DESCRIPTION

MD2111 is a double coated 0.5mil PET with Mactac's non-migratory, non out-gassing chemically inert Response acrylic adhesive system. The product is supplied with a 72# polycoated kraft paper.

MD2111 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:** Clear 0.5mil Melinex PET film

**Adhesive:** 1.2 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

**Liner:** 72# Polycoated coated Kraft paper coated two side with silicone release

## 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>136 (37.4)</b>	<b>PSTC – 101-Method A</b>
24 hour dwell	<i>(N/25mm)</i>	<b>158 (43.6)</b>	
<b>Loop Tack</b>	<b>oz./in<sup>2</sup></b>	<b>102.4 (28.2)</b>	<b>PSTC-16- Method A</b>
	<i>(N/25mm)</i>		
<b>Shear 1kg @ 72°F</b>	<b>hours</b>	<b>85+</b>	<b>PSTC – 107 – Method A</b>
<b>Thickness</b>			
Carrier & Adhesive	<b>inches (microns)</b>	<b>.0029 (73.7)</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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