



# PERFORMANCE GUIDE

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**PRODUCT:** MD2122

## PRODUCT DESCRIPTION

MD2122 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 two 2mil C1S clear PET liners.

MD2122 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:** 1.15 mils of Response-03 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:** Two 2 mil C1S clear PET liners

## PHYSICAL PROPERTIES

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

Performance Test	Unit of Measure	Typical Values		Testing Method
		Liner	Unwind	
<b>180° Peel Stainless Steel</b>				
30 minute dwell	<b>oz./in width</b>	<b>68.5 (18.8)</b>	<b>68.5 (18.8)</b>	<b>PSTC – 101-Method A</b>
24 hour dwell	<i>(N/25mm)</i>	<b>70.7 (19.0)</b>	<b>70.7 (19.0)</b>	
<b>Loop Tack</b>	<b>oz./in<sup>2</sup> (N/25mm)</b>	<b>49.6 (13.64)</b>	<b>49.6 (13.64)</b>	<b>PSTC-16- Method A</b>
<b>Shear 1kg @ 72°F</b>	<b>hours</b>	<b>300+</b>		<b>PSTC – 107 – Method A</b>
<b>Thickness</b>				
Carrier & Adhesive	<b>inches (microns)</b>	<b>.0028 (71.2)</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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