



# PERFORMANCE GUIDE

Revised: 6/2022 SRS

**PRODUCT:** MD2123

## PRODUCT DESCRIPTION

MD2123 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.

MD2123 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:** 2.4 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:** 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>96 (26.4)</b>	<b>PSTC – 101-Method A</b>
24 hour dwell	<i>(N/25mm)</i>	<b>104 (28.6)</b>	
<b>Loop Tack</b>	<b>oz./in<sup>2</sup></b> <i>(N/25mm)</i>	<b>128 (35.2)</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>.0053 (134.6)</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**

**IMPORTANT NOTICE:** The information given and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use 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 fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

™ Trademark of Morgan Adhesives Company LLC

® Registered Trademark of Morgan Adhesives Company LLC

www.Mactac.com

