



# PERFORMANCE GUIDE

Revised: 1/2022 SRS

**PRODUCT:** MD3012

## PRODUCT DESCRIPTION

MD3012 is an unsupported transfer adhesive based on Mactac's non-migratory, non out-gassing chemically inert Response acrylic adhesive system. The adhesive is protected by a 72# polycoated liner. This product can also be supplied as a two liner product.

MD3012 is designed for use in in-vitro diagnostic applications such as: urinalysis strips, lateral flow, microfluidic, micro array, PCR, titer plates and autofluorescence devices.

## PRODUCT CONSTRUCTION

**Adhesive:** Response-02 is a 100% solids pressure sensitive acrylic adhesive. Response-02 has been assessed by an independent bio-medical laboratory and meets ISO-10993 guidelines for direct skin contact. Response-02 has been evaluated by an independent laboratory for FDA 21 CFR175.105 and 21 CFR176.180 for food packaging. Headspace Analysis shows Response-02 to be low-outgassing. Specific test procedures and results are available upon request.

**Liner:** 72# PCK with a release coating on both sides.

## 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	<b>(N/25mm)</b>	<b>158 (43.6)</b>	
<b>Loop Tack</b>	<b>lbs./in<sup>2</sup> (N/25mm)</b>	<b>96 (26.4)</b>	<b>PSTC-16- Method A</b>
<b>Shear 1kg @ 72°F</b>	<b>hours</b>	<b>85+</b>	<b>PSTC – 107 – Method A</b>
<b>Thickness</b>			
Adhesive	<b>inches (microns)</b>	<b>.002 (50.8)</b>	

## TEMPERATURE RANGE

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

## **ATTRIBUTES**

- Non-VOC, non-outgassing and non-migratory
- Low residual chemical activity
- 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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