

Product code: 4-GL3C-11621

### RI-DEFEND 80 AP908 WK135 N

The combination between the permanent acrylic adhesive and the high-quality polymeric vinyl film make RI-DEFEND the best choice for creating an invisible barrier against germs and bacteria on graphics, doors, handles, windows, tables, chairs, displays, touch screens or in all those areas that require a high level of hygiene such as hospitals and laboratories

## Applications

Polymeric overlamination film containing Zinc Pyrithione (ZnP), a biocidal system, which keeps the surface free of bacteria by inhibiting their growth and killing them up to 99.9%. Effective against (tested according to ISO 22196: 2011):

- Escherichia coli ATCC 8739
- Enterococcus faecalis – ATCC 29212
- Listeria monocytogenes - ATCC 13932
- Klebsiella pneumoniae – ATCC 4352
- Staphylococcus aureus - ATCC 6538
- Pseudomonas aeruginosa – ATCC 27853
- Salmonella enterica - ATCC 14028

The film can be treated with various disinfecting mixtures recommended for the prevention of COVID-19 such as sodium hypochlorite 0.1%, benzalconium chloride 5.0%, Ethanol 70%.

## Face Material

Gloss clear polymeric vinyl with antimicrobial properties.

<b>Type</b>	Polymeric vinyl	
<b>Colour and Finish</b>	Ultra-clear gloss	
<b>Weight</b>	100 g/m <sup>2</sup> ±10%	ISO-536
<b>Thickness</b>	75 µm ±10%	ISO 534-80
<b>Dimensional stability</b>	< 0.5 %	ASTM D1204
<b>Tensile Strength MD</b>	> 35 N/mm <sup>2</sup>	ASTM D882
<b>Tensile Strength CD</b>	> 28 N/mm <sup>2</sup>	ASTM D882
<b>Elongation at break MD</b>	> 150 %	ASTM D882
<b>Elongation at break CD</b>	> 100 %	ASTM D882
<b>Flammability</b>	SELF-EXTINGUISH	ISO 3795:1989
<b>Outdoor vertical exposure durability</b>	UP TO 5 YEARS	

## Adhesive

Acrylic permanent adhesive featuring water, steam and temperature resistance.

<b>Reference</b>	AP908	
<b>Type</b>	Acrylic permanent	
<b>Min. Appl. Temp.</b>	+5 °C	
<b>Service Temperature</b>	-40°C/+130°C	
<b>Shear</b>	Medium	FINAT FTM8
<b>Initial adhesion</b>	> 10 N/25mm	FINAT FTM1
<b>Final Adhesion</b>	> 15 N/25mm	FINAT FTM1

## Liner

Type	One side siliconised clay coated	
Colour and Finish	White	
Weight	135 g/m <sup>2</sup> ±10%	ISO-536
Thickness	132 µm ±10%	ISO 534-80
Transparency	n/a %	DIN 53 147-64

## Printing Methods

Not-printable.

## Shelf life

24 months, applicable only to the material delivered by Ritrama which has not undergone further processing, under the storage conditions as defined by FINAT section 2.5:

- Ideal storage conditions are at a temperature of 20 -25 °C and 40 - 50 % HR.
- Store in a cool and dry place.
- Do not store close to a heat source or in direct sunlight.
- Keep the material in the original packaging until required for use.

Pay particular attention to the recommended shelf-life and ensure correct stock rotation.

## Disclaimer

All Ritrama's products are subject to manufacturing controls in order to guarantee the good quality of the products. The statements, technical information, data, values and recommendations regarding Ritrama's products are based on research and tests we believe to be reliable, but do not constitute a guarantee or warranty of whatsoever nature.

Considering the multiple uses of Ritrama's products, the user is recommended to test the products prior to their use, so to determine and ascertain the suitability and performance of the product for its intended application and purpose.

The methods of conversion and application of Ritrama's self-adhesive materials are multiple and it is therefore essential that the users are aware of the particular method to be used, prior to commencing the production.

Printing: Testing for compatibility between product, printers and inks is always highly recommended before printing the product.

Application Systems and Conditions: it is recommended that the performance of the product be always tested in the actual applications conditions as substrate state (rough, smooth, flat or irregular shapes, moderate curves, with or without rivets); applicator technology (hand application or fully automated lines); specific stress on Ritrama material once applied (high and/or low temperature, mechanical stress, exposure to challenging environment conditions), et cetera.

As Ritrama's products are used in conditions beyond its control, such as those listed above as example, Ritrama does not assume any liability for inappropriate use of the products.

Ritrama reserves the right to modify at any time and without the need of a prior notice, at its sole and exclusive discretion, the products, their features and technical specifications.

All Ritrama's products are sold subject to Ritrama's general terms and conditions of sale listed in the following Ritrama's web page: <http://www.ritrama.com/en/sale-conditions/>