

ARcare® 93945 is medical grade pressure-sensitive acrylic adhesive coated onto a stretchable polyurethane film supported by a paper carrier. The adhesive layer is protected with a polyester release liner.

PRODUCT APPLICATIONS

The typical use for this product is for mid- and long-term wear skin contact applications such as wearable medical devices.



FEATURES AND BENEFITS

- Non-toxic, non-irritating and non-sensitizing adhesive
- Easy removal after extended wear
- Breathable
- Excellent wear performance for active lifestyles
- Conformable to skin
- Biocompatible

Product Construction			
	Typical Values*		Description
Liner thickness	2.0 mil	51 µm	Clear polyester release liner
Adhesive thickness	2.9 mil	74 µm	MA-161, clear acrylic adhesive
PU film thickness	2.0 mil	51 µm	Clear polyurethane film
Paper backing	4.8 mil	122 µm	White paper backing
Total thickness	4.9 mil	124 µm	(Excluding liner and paper backing)

*All stated values are nominal and should only be used as a guide for selection. They are not specifications.

SAFETY DATA

The MA-161 adhesive has been tested and passed cytotoxicity, skin irritation and skin sensitization testing conducted by an independent laboratory. Additional safety information is available upon request.

Product Information Sheet

ARcare® 93945 (Developmental)



Technical Properties			
Attribute*	Typical Values*		Test Method*
Peel adhesion on stainless steel	74 oz/inch	20.6 N/25mm	180 degrees, 12 ipm, 5 min. dwell
Release of clear PET liner	47 g/2"		180 degrees, 300 ipm
MVTR	490 g/m ² /day		ART 4047
Recommended storage of unconverted product	70°F ± 20°F 50% ± 20% RH	21°C ± 11°C 50% ± 20% RH	
Shelf life of unconverted product	Not to exceed one year from date of manufacture		

*All stated values are nominal and should only be used as a guide for selection. They are not specifications.

Note: The information contained on this data sheet is based upon test results of limited quantities of this material and may be modified by Adhesives Research following additional production experience and evaluation. This data should not be used in preparing specifications. Products identified as developmental may be subject to modification by Adhesives Research, Inc.

APPLICATION AND STORAGE OF PRESSURE-SENSITIVE ADHESIVE TAPES

Pressure-sensitive adhesive tapes function as a mechanical product; however, the adhesive itself is a chemical composition that can be sensitive to environmental conditions. A purchaser of pressure-sensitive adhesive products should be aware of the shelf life of each product and not purchase more than it can use before the expiration date. Shipping and storage conditions affect shelf life. The optimum storage temperature is 70 °F (21 °C). Cool, dry storage is recommended.

For best results...

- 1) The surfaces you wish to bond should be clean and free of oil, moisture and dust. If the surface temperature is below 40°F, it may be difficult to achieve a proper bond.
- 2) Do not use a pressure-sensitive adhesive product where it will be exposed to temperatures lower or higher than those designated for each product. Heat can destroy the effectiveness of the bond and extreme cold can cause the adhesive to harden and not adhere properly.
- 3) When the tape is applied, use firm hand or lamination pressure to achieve contact between the adhesive and the surface to which it is applied. Hand rollers or nip rollers may be needed for certain products or applications.

Consult your AR sales representative if you need additional information.

THIS IS NOT AN OFFER

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