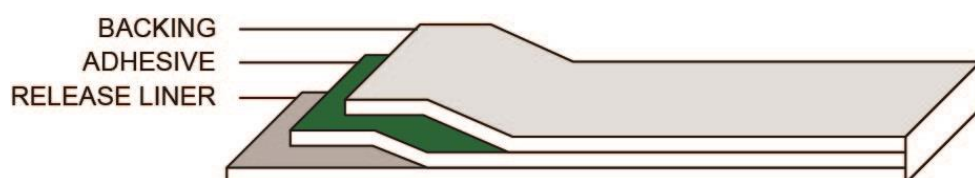


ARcare® 93439 is an e-beam and gamma sterilizable medical grade pressure-sensitive adhesive coated on a white nonwoven fabric. The adhesive is skin-friendly and designed for long-term wear applications.

PRODUCT APPLICATIONS

The typical uses for this product are for long-term wear skin contact applications, such as wearable In-Vitro Diagnostic devices (IVD).



FEATURES AND BENEFITS

- Non-sensitizing adhesive
- Excellent adhesion and conformability to skin for long term wear
- High moisture vapor transmission rate (MVTR)
- Sterilizable to 25 kGy

| Product Construction | | | |
|----------------------|-----------------|--------|-------------------------------|
| | Typical Values* | | Description |
| Carrier thickness | 11 mil | 279 µm | Non-woven PET carrier |
| Adhesive thickness | 2.6 mil | 66 µm | MA-173 medical grade adhesive |
| Liner thickness | 2.0 mil | 50 µm | Clear polyester liner |
| Total thickness | 13.6 mil | 345 µm | (Excluding liner) |

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

SAFETY DATA

The base polymer of MA-173 has passed cytotoxicity, skin irritation and skin sensitization testing conducted by an independent laboratory. The stabilizer package added to the base polymer has also been tested as part of a separate adhesive family and has passed cytotoxicity, skin irritation and skin sensitization testing conducted by an independent laboratory. Additional safety information is available upon request.

Product Information Sheet

ARcare® 93439



| Technical Properties | | | |
|--|---|-----------------------------|--|
| Attribute* | Typical Values* | | Test Method* |
| Peel adhesion on HDPE | 14 oz/in | 3.9 N/25 mm | 90 degrees, 12 ipm, 15 min. dwell |
| Release of polyester liner | ~100 g/2" | | 180 degrees, 300 ipm |
| Moisture vapor transmission rate | ~ 550 g/m ² /day | | Payne Cup Method: 10 mL H ₂ O, 24 hr. dwell in 20% RH/ 37.2°C Chamber |
| 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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AR limits the purchaser's remedies in the event of a breach of any warranty. The purchaser's exclusive remedy and AR's obligations for a breach of any warranty shall be as set forth in the Sales Order Acknowledgment.

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