

# ARcare® 90445

## Clear Polyester Double-Sided Adhesive Tape



### PRODUCT DESCRIPTION

ARcare® 90445 is a clear, thin and flexible plastic film coated on both sides with a medical grade pressure-sensitive adhesive. The double-faced tape is protected by a clear polyester release liner on both sides.

### FEATURES

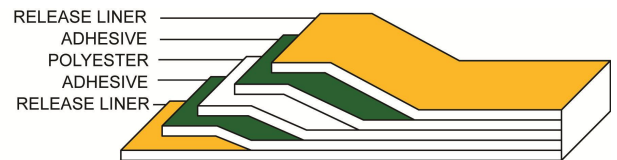
- Non-migratory acrylic adhesive
- Inert acrylic adhesive
- Easily die cut

### BENEFITS

- Allows lateral flow in membrane-based devices
- Compatible with many assays
- Facilitates design options

### PRODUCT PROFILE AND DIAGRAM

Substrate: 1 mil clear polyester film  
 Adhesive: AS-110 acrylic medical grade adhesive (both sides)  
 Liner: 2 mil clear polyester release film (both sides)



### PROPERTIES

<u>ATTRIBUTE</u>	<u>NOMINAL VALUE*</u>
180° Peel Adhesion:	25 oz/in minimum (both sides)
Adhesive Thickness:	1.1 mils (both sides)
Thickness Without Liners:	3.2 mils
Total Thickness:	7.2 mils

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

### PRODUCT APPLICATIONS

Suggested for bonding, laminating and assembly of in-vitro diagnostic and related membrane-based immunoassay products. It is necessary, as with all pressure-sensitive tapes, that the surface to which the tape is to be applied be clean and dry. Users should assure the product meets the specific needs of their application(s). Adhesives Research can tailor the product to meet the needs of specific applications as requested by customers.

### SAFETY DATA

AS-110 is an acrylic, pressure-sensitive adhesive. The adhesive passed cytotoxicity and primary skin irritation tests conducted by an independent laboratory. Additional information is available by accessing our Drug Master Files or Device Master Files.

### STORAGE

Unconverted rolls should be stored at 70 °F ± 20 °F (21 °C) and 50% ± 20% relative humidity, out of direct sunlight.

# ARcare® 90445

## Clear Polyester Double-Sided Adhesive Tape

**Adhesives Research®**

(28 Mar 2014)

### 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.

### WARRANTY AND DISCLAIMER

AR expressly warrants to Purchaser that its product, under normal and intended use, maintenance, and storage, is free from defects in workmanship for twelve (12) months from the date of shipment, unless otherwise stated. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES. **AR MAKES NO WARRANTY AS TO EXPERIMENTAL AND DEVELOPMENTAL SAMPLES OR MATERIALS. AR MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No provisions, statements, diagrams, drawings or pictures contained in any product literature, price list, catalogue, purchase order, product data sheet, order acknowledgment, invoice, delivery ticket, or any other communication by AR, including information on AR's website or statements made by AR's employees or agents, constitute express warranties. Results of tests and recommendations included in communications of AR do not constitute express warranties. MANY FACTORS MAY AFFECT THE USE AND PERFORMANCE OF AN AR PRODUCT IN A PARTICULAR APPLICATION, INCLUDING, AMONG OTHERS, THE PRODUCT SELECTED FOR USE, THE CONDITIONS IN WHICH THE PRODUCT IS USED, THE TIME AND ENVIRONMENTAL CONDITIONS IN WHICH THE PRODUCT IS EXPECTED TO PERFORM, THE MATERIALS TO BE USED WITH THE PRODUCT, THE SURFACE PREPARATION OF THOSE MATERIALS, AND THE APPLICATION METHOD FOR THE PRODUCT; THEREFORE, PURCHASER ACCEPTS RESPONSIBILITY FOR DETERMINING WHETHER AR'S PRODUCT IS FIT FOR A PARTICULAR PURPOSE AND SUITABLE FOR PURCHASER'S METHOD OF APPLICATION. AR retains the right to modify or change its products if in AR's judgment it is advisable.

Purchaser's exclusive remedy and AR's sole obligation for any breach of warranty is limited to, at AR's option, either: 1) replacement of AR's product, or 2) reimbursement of the purchase price of AR's product. **AR DISCLAIMS ANY OTHER OBLIGATION OR LIABILITIES ARISING OUT OF BREACH OF WARRANTY.** AR will not be liable of any loss, damage, expense or consequential, incidental or special damages of any kind.

ARcare® is a registered trademark of Adhesives Research. Adhesives Research® is a registered trademark of Adhesives Research, Inc. for engineering and design services in the field of pressure-sensitive adhesive systems.

©2014 Adhesives Research, Inc. Printed in USA.

Internet: [www.adhesivesresearch.com](http://www.adhesivesresearch.com)

**Adhesives Research, Inc.**  
400 Seaks Run Road, P.O. Box 100  
Glen Rock, PA 17327  
Toll-free: 800-445-6240  
Phone: 717-235-7979  
Fax: 717-235-8320

**Adhesives Research Ireland Ltd.**  
Raheen Business Park, Limerick, Ireland  
Phone: +353 61 300 300  
Fax: +353 61 300 700

**Adhesives Research Ltd.**  
United Kingdom  
Phone: +44 (0)1371 878187

**Adhesives Research Pte. Ltd.**  
20 Maxwell Road  
#10-06 Maxwell House  
Singapore 069113  
Phone: +65 6774 9580  
Fax: +65 6777 7261

**Adhesives Research Shanghai  
Representative Office**  
Unit 3526A, Level 35 CITIC Square  
1168 West Nanjing Road  
Shanghai 200041, China  
Phone: +86 21 6150 4358  
Fax: +86 21 6135 7120