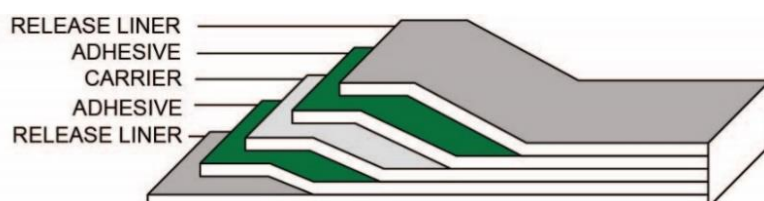


ARcare® 90445Q is a clear, thin and flexible plastic film coated on both sides with a medical grade pressure-sensitive adhesive. The double-faced tape is protected by a clear polyester release liner on both sides.

PRODUCT APPLICATIONS

The typical use for this product is bonding, laminating and assembly of in-vitro diagnostic and related membrane-based immunoassay products.



FEATURES AND BENEFITS

- Non-migratory and inert acrylic adhesive
- Routinely used as a PSA mid-layer in capillary and microfluidic device assemblies
- Creates strong seal
- Easily die-cut
- Allows uninterrupted lateral flow in membrane-based devices
- Compatible with many assays
- Facilitates design options

Product Construction			
	Typical Values*		Description
Liner thickness	2.0 mil	51 µm	Clear polyester release liner
Adhesive thickness	1.1 mil	28 µm	AS-110 medical grade adhesive
Carrier thickness	1.0 mil	25 µm	Clear polyester carrier
Adhesive thickness	1.1 mil	28 µm	AS-110 medical grade adhesive
Liner thickness	2.0 mil	51 µm	Clear polyester release liner
Total thickness	3.3 mil	81 µm	(Excluding liner)

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

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 safety information is available upon request.

Product Information Sheet

ARcare® 90445Q



Technical Properties			
Attribute*	Typical Values*		Test Method*
Peel adhesion on stainless steel	70 oz/in	19.3 N/25mm	180 degrees, 12 ipm, 5 min. dwell
Release of polyester liner (1)	30 g/2"		180 degrees, 300 ipm
Release of polyester liner (2)	30 g/2"		180 degrees, 300 ipm
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 two years 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

This Product Information sheet ("PI Sheet") is not an offer to sell by Adhesives Research ("AR") and does not contain any binding warranties or terms of sale. While this PI Sheet does contain technical information and general warranty information, this PI Sheet is non-binding and is for information purposes only. If you wish to purchase the product set forth on this PI Sheet ("Product"), or have any questions regarding the warranty or other terms related to this Product, contact AR customer service or a sales representative and they will provide you with AR's terms of sale for the Product in the form of a Sales Order Acknowledgment. AR shall not be bound by any terms or information set forth in this PI Sheet.

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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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