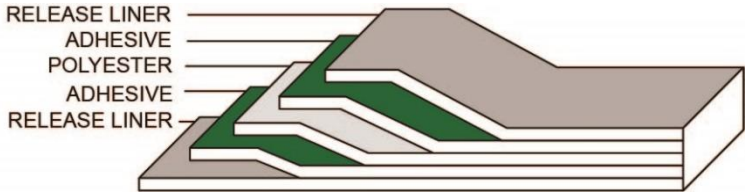
Product Information Sheet
ARcare® 92848

Adhesives Research®

ARcare® 92848 is a double-sided heat sealing tape. It consists of a white polyester carrier coated on both sides with a thermoplastic adhesive and protected by clear polyester release liners.

PRODUCT APPLICATIONS

The typical use for this product is as a component material for use in joining polymer and metalized plastic substrates. The applications include in-vitro diagnostic test devices such as capillary and lateral flow designs.



FEATURES AND BENEFITS

- Conformable and easily applied to substrates
- Provides strong bonds to polyester, polystyrene, polycarbonate, polymethyl methacrylate and metalized plastic substrates
- Good sealing properties for containment of fluids
- Non-interfering with reagent chemistries
- Processing and converting capabilities with minimal gumming effects
- Water contact angle of ~ 70°-90°
- Can be used in specialized device designs requiring tight thickness tolerance

Product Construction			
	Typical Values*		Description
Liner thickness	2.0 mil	50 µm	Clear polyester release liner
Adhesive thickness	0.9 mil	23 µm	MA-77 heat sealing adhesive
Carrier thickness	2.0 mil	50 µm	White polyester film
Adhesive thickness	0.9 mil	23 µm	MA-77 heat sealing adhesive
Liner thickness	2.0 mil	50 µm	Clear polyester release liner
Total thickness	3.8 mil	96 µm	(Excluding liner)

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

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SAFETY DATA

Adhesive has passed cytotoxicity tests conducted by an independent laboratory. Additional safety information is available upon request.

Technical Properties			
Attribute*	Typical Values*		Test Method*
T-peels using Melinex 329 Backing	45 oz/inch	12.5 N/25mm	3 second 60°C heat seal, 50 psi, 2.36 in/min, 24 hour dwell
Liner Release (both sides)	~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 one year from date of manufacture		

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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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