

Product Information Sheet

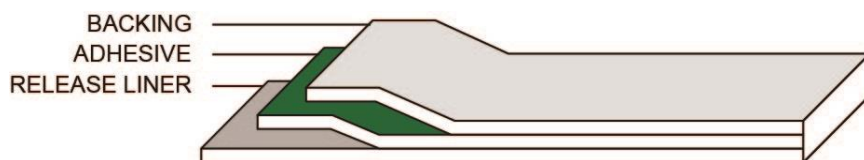
ARseal™ 32440



ARseal™ 32440 medical diagnostic and PCR sealing tape is a clear polypropylene film coated with a non-tacky silicone pressure-sensitive adhesive (PSA), protected by a siliconized release liner.

PRODUCT APPLICATIONS

The typical use for this product is in the sealing of microplates and other geometries used in PCR testing. This product may also be used in other diagnostics devices, including ELISA, lab-on-a-chip and organ-on-a-chip systems.



APPLICATION NOTES

The silicone adhesive is non-tacky to the touch, but will bond aggressively to a plastic or glass surface with the application of firm pressure (25+ psi). Pressure may be applied with a roller to minimize the introduction of air bubbles.

FEATURES AND BENEFITS

- Non-fluorinated, PFAS-free release liner
- Non-tacky to skin and gloves
- Chemically inert and resistant to solvents commonly used in PCR (DMSO, formamide, etc.)
- Good temperature resistance up to 110°C and withstands thermocycling
- Low haze, high transmission, and high clarity; low autofluorescence
- Adheres to a wide variety of substrates

Product Construction			
	Typical Values*		Description
Backing thickness	2.0 mil	51 µm	Clear polypropylene film
Adhesive thickness	2.0 mil	51 µm	SR-50 silicone adhesive
Liner thickness	2.0 mil	51 µm	White siliconized PET release liner
Total thickness	4.0 mil	102 µm	(Excluding liner)

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

SAFETY DATA

This product has passed ISO 10993-5 cytotoxicity testing conducted by an independent laboratory. Additional safety information is available upon request.

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Technical Properties			
Attribute*	Typical Values*		Test Method*
Peel adhesion to stainless steel (180°, 12 in/min, 1 h dwell)	60 oz/in	17 N/25.4 mm	ASTM D3330
Peel adhesion to polypropylene (180°, 12 in/min, 1 h dwell)	54 oz/in	15 N/25.4 mm	ASTM D3330
Liner release (180°, 300 in/min)	20 g/2 in		ASTM D5375
Optical Properties	Transmission: Haze: Clarity:	100% 1% 98%	ASTM D1003
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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