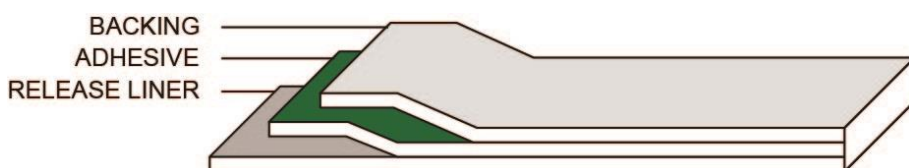


ARflow® 93049 is a thin and flexible plastic film coated on one side with a hydrophilic pressure-sensitive adhesive (PSA).

PRODUCT APPLICATIONS

The typical use for this product is for assemblies of in-vitro diagnostic and related membrane-based immunoassay products where enhanced wettability to water, blood and other hydrophilic liquids are required.



FEATURES AND BENEFITS

- Wettable to liquids such as water, urine and blood, and can be used as an aid for transport of fluids from entrance port to a detection zone
- Stable to a wide array of temperatures and humidity
- Excellent conformability
- Provides adhesion to polymer and metalized polymer surfaces
- Good aesthetic quality

| Product Construction | | | |
|----------------------|-----------------|--------|---------------------------|
| | Typical Values* | | Description |
| Backing thickness | 3.0 mil | 76 µm | Clear PET film |
| Adhesive thickness | 1.0 mil | 25 µm | HY-32 hydrophilic coating |
| Liner thickness | 1.5 mil | 38 µm | Clear PET release liner |
| Total thickness | 4.0 mil | 101 µm | (Excluding liner) |

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

Handling Recommendations

This hydrophilic pressure sensitive adhesive is sensitive to surface impurities. It is recommended that the coated samples be handled using powder-free gloves and in an area that is away from dirt, silicones or other types of oils.

Product Information Sheet
ARflow® 93049



| Technical Properties | | | |
|---|--|-----------------------------|--------------------|
| Attribute* | Typical Values* | | Test Method* |
| Peel adhesion on polystyrene (180°, 12 in/min, 15 min dwell) | 30 oz/in | 8.4 N/25.4 mm | ASTM D3330 |
| Peel adhesion on stainless steel (180°, 12 in/min, 15 min dwell) | 20 oz/in | 5.6 N/25.4 mm | |
| Peel adhesion on HDPE (180°, 12 in/min, 15 min dwell) | 15 oz/in | 4.2 N/25.4 mm | |
| Peel adhesion on PET (180°, 12 in/min, 15 min dwell) | 30 oz/in | 8.4 N/25.4 mm | |
| Peel adhesion on polycarbonate (180°, 12 in/min, 15 min dwell) | 80 oz/in | 22.4 N/25.4 mm | |
| Contact angle with water (2µL DI water drop, 30 sec. dwell) | 6° - 7° | | AR Internal Method |
| Liner release (180°, 300 in/min) | 30 g/2 in | | ASTM D5375 |
| 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.

Product Information Sheet

ARflow® 93049



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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