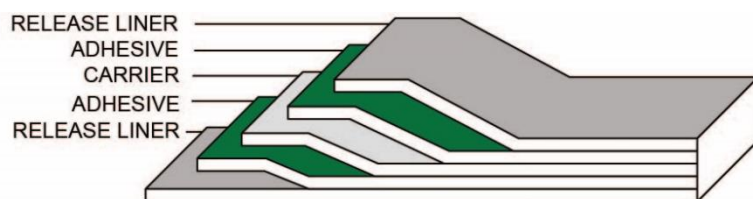


ARflow® 93687 is a medical grade hydrophilic pressure-sensitive adhesive coated on both sides of a thin polyester film. The adhesive layer on both sides is protected by a polyester release liner.

PRODUCT APPLICATIONS

The typical use for this product is in applications that require a hydrophilic spacer that can be die-cut into precise channel layers and bond to top and bottom components to form a microfluidic device. The hydrophilic walls created by the adhesive provide passive movement of biological fluids from an entrance port to a detection zone.



FEATURES AND BENEFITS

- Stable to a wide array of temperatures and humidity
- Hydrophilic, pressure-sensitive, flexible tape with excellent die-cutting
- Wettable to liquids such as water, urine, blood, etc.
- Provides adhesion to polymer and metalized polymer surfaces

Product Construction			
	Typical Values*		Description
Liner thickness	3 mil	76 µm	Siliconized polyester liner
Adhesive thickness	3 mil	76 µm	HY-32 hydrophilic adhesive
Carrier thickness	0.5 mil	13 µm	Polyester film
Adhesive thickness	3 mil	76 µm	HY-32 hydrophilic adhesive
Liner thickness	2 mil	51 µm	Siliconized polyester liner
Total thickness	6.5 mil	165 µm	(Excluding liners)

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

Product Information Sheet

ARflow® 93687



Technical Properties			
Attribute*	Typical Values*		Test Method*
Contact angle	6°		Goniometer – 2 µL water drop; 30 sec. dwell
Easy liner release	18 g/2"		180°, 300 ipm
Tight liner release	31 g/2"		180°, 300 ipm
T-peel to polyester	26 oz/in	7.2 N/25mm	12 ipm, 15 minute dwell
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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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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