

ARflow® Hydrophilic Adhesives and Coatings

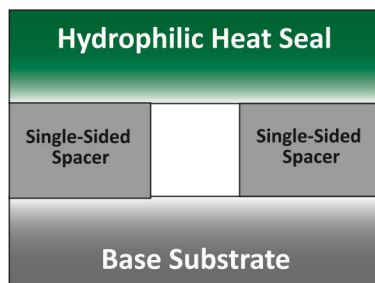
Efficient fluid transport. Reduced analysis times.

ARflow® hydrophilic technologies from Adhesives Research reduce the surface tension of biological fluids to allow for rapid and consistent wicking in diagnostic devices. ARflow is designed for use in diagnostic devices such as blood coagulation monitors, blood glucose, point-of-care tests, environmental test kits and biotechnology applications.

ARflow hydrophilic technologies provide tailorable flow rates and contact angles ranging <math><10^\circ</math> to 60° to enable stable, passive fluid transport. These adhesives and coatings are compatible with reagent chemistries, biological samples and are non-interfering with test results.

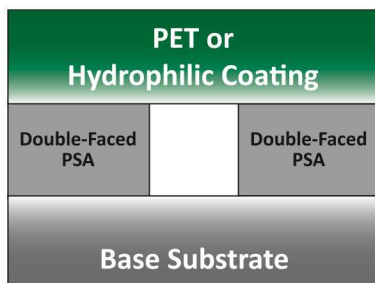
The ARflow product line includes heat seal adhesives, pressure-sensitive adhesives (PSAs) and non-adhesive coatings. Our adhesives are formulated to bond to low-surface energy and metalized substrates commonly used in diagnostic devices and offer long-term stability in high-temperature and humidity environments.

Benefits of ARflow® Products:



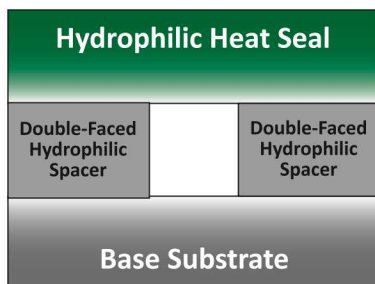
Hydrophilic Heat Seal Adhesives

- Formulated as non-tacky or tacky adhesives
- Clean die-cutting formulations
- Tailorable bonding
- Bonds to polymeric substrates
- Multiple chemistries available
- Low cold flow for dimensional stability



Hydrophilic Pressure-Sensitive Adhesives (PSAs)

- Instant tack forms permanent bonds with minimal pressure
- Ideal for chemistries that are sensitive to heat exposure
- Bonds to polymeric substrates
- Tailorable adhesion
- Inherently and uniformly hydrophilic on all surfaces
- Low cold flow for dimensional stability
- Die-cuttable
- Low fluorescing chemistries



Hydrophilic Coatings

- Non-tacky coatings can be applied to a range of rigid substrates
- Ideal as a top component for quick capillary flow
- Low contact angle
- Designed for use in combination with a PSA spacer tape

Hydrophilic Tapes

Heat Activated Hydrophilic Tapes						
90128	HY-9	125µ Clear PET	50µ PET	160µ	Polyester (LCA)	S/F
90368	HY-10	75µ Clear PET	50µ PE	100µ	Polyester (LCA)	S/F
92804	HY-25	75µ Clear PET	50µ PET	95µ	Polyester (MCA)	S/F
93234	HY-33	75µ Clear PET	50µ PET	100µ	Acrylic (LCA)	S/F
Pressure Sensitive Hydrophilic Tapes						
93049	HY-32	75µ Clear PET	50µ PET	100µ	Acrylic (LCA)	S/F
93450	HY-32	N/A	50µ PET	25µ	Acrylic (LCA)	T/F
Hydrophilic Coatings						
8586	MA-55	75µ Clear PET	None	62µ	Polyester (LCA)	S/F, SW
93025	HY-10	100µ Clear PET	37.5µ PET	112µ	Polyester (LCA)	S/F
93781	HY-47	100µ Clear PET	63µ Blue PE	112µ	Polyester (LCA)	S/F

T/F - Transfer film (adhesive between release liners)
S/F - Single face tape
SW - Self-Wound

D/F - Double face tape
LCA - Low Contact Angle
MCA - Medium Contact Angle

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(Revised 25 June 2020)

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