

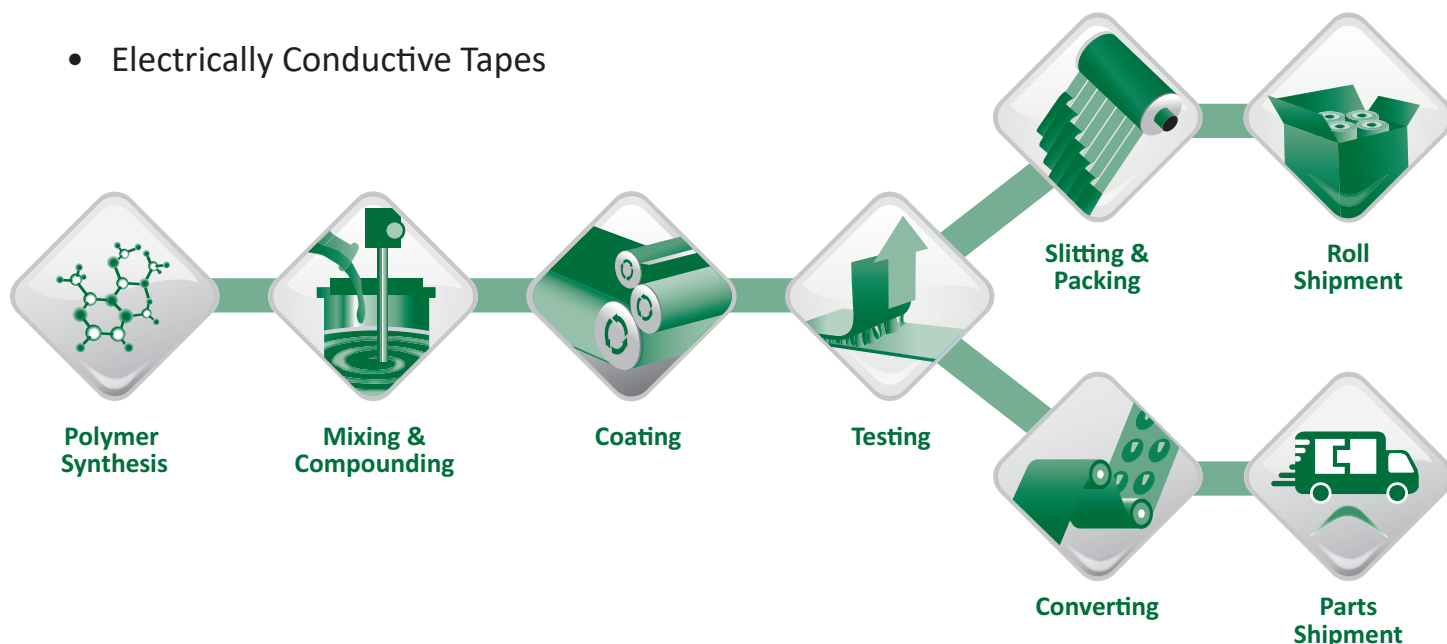
Capabilities

For nearly 60 years, Adhesives Research has developed and manufactured custom adhesives and coating technologies around the world. Our innovative products are created for a variety of purposes and industries, including in-vitro diagnostic (IVD) applications used in the medical industry.

We offer our customers complete, custom solutions for products through innovative technologies capable of delivering enhanced performances and novel capabilities to a variety of medical devices.

Our custom adhesives opportunities include:

- Cover Tapes
- Spacer Tapes
- Optically Clear Tapes
- Hydrophilic Tapes & Coatings
- Low Leachables and Low-Outgassing Tapes
- Electrically Conductive Tapes



POC Tapes and Electrically Conductive Products

Product Number	Adhesive	Carrier	Liner	Total Thickness (w/o liner)	Adhesive Type	Construction/ Conductivity
Cover Tapes						
7759	AS-110	25μ Clear PET	50μ Clear PET	55μ	Acrylic	S/F
7815	AS-110	50μ Clear PET	50μ Clear PET	75μ	Acrylic	S/F
8259	AS-110	127μ White PET	50μ Clear PET	157μ	Acrylic	S/F
8565	AS-110	254μ White PET	50μ Clear PET	279μ	Acrylic	S/F
90697	SR-25	51μ Clear BOPP	50μ Clear PET	97μ	Silicone	S/F
Spacer Tapes						
8939	AS-110	76μ White PET	50μ Clear PET	125μ	Acrylic	D/F
90445Q	AS-110	25μ Clear PET	50μ Clear PET	81μ	Acrylic	D/F
90106NB	MA-69	25μ Clear PET	50μ White PET	140μ	Hybrid	D/F
92712	MA-93	13μ Clear PET	50μ Clear PET	49μ	Acrylic	D/F
90880	SR-26	51μ Clear BOPP	50μ Clear PET	142μ	Silicone	D/F
92848	MA-77	51μ White PET	50μ Clear PET	96μ	Acrylic Heat Seal	D/F
Optically Clear Tapes						
93495	SR-29	-	50μ Clear PET	38μ	Silicone	T/F
8932EE	SR-22	-	50μ Clear PET	38μ	Silicone	T/F
92524	AS-200	-	50μ Clear PET	25μ	Acrylic	T/F
92734	AS-221	-	50μ Clear PET	25μ	Rubber	T/F
Low Leachables & Low Outgassing Tapes						
90176	AS-144	50μ Clear PET	165μ Paper/50μ PET	125μ	Acrylic	D/F
90178	AS-144	12μ Clear PET	165μ Paper/50μ PET	88μ	Acrylic	D/F
8915W6970	AS-139	76μ White PET	37μ PET / 50μ PET	150μ	Acrylic	D/F
93530	AS-132	-	50μ PET	25μ	Acrylic	T/F
Electrically Conductive Tapes						
8001	EC-2	Conductive Nonwoven	157μ Paper	120μ	Acrylic	x-y-z
8006	EC-2	-	80μ Paper/50μ PET	25μ	Acrylic	x-y-z
9032	EC-27	-	50μ PET	25μ	Acrylic	z
90366	EC-2	-	50μ PET	33μ	Acrylic	x-y-z

Hydrophilic Tapes

Heat Activated Hydrophilic Tapes						
90128	HY-9	125μ Clear PET	50μ PET	155μ	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	38μ PET	100μ	Acrylic (LCA)	S/F
93450	HY-32	N/A	50μ PET	25μ	Acrylic (LCA)	T/F
Hydrophilic Coatings						
8586	MA-55	50μ Clear PET	None	62μ	Polyester (LCA)	S/F, SW
93025	HY-10	100μ Clear PET	38μ PET	111μ	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

ARflow® Hydrophilic Adhesives and Coatings

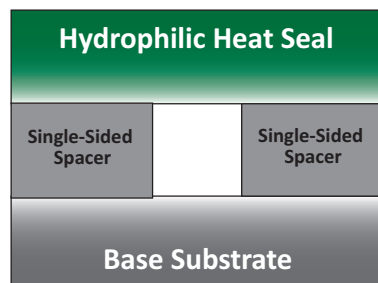
Efficient fluid transport. Reduced analysis times.

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 <10° 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.

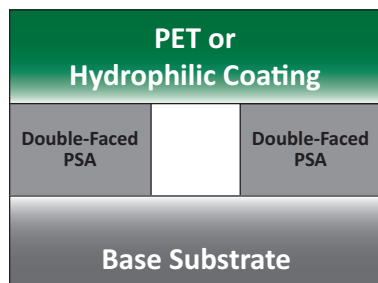
The ARflow product line includes heat seal adhesives, pressure-sensitive adhesives (PSAs) and non-adhesive coatings. Our adhesives are formulated to bond to low-surface energy and metalized substrates commonly used in diagnostic devices and offer long-term stability in high-temperature and humidity environments.

Benefits of ARflow® Products:



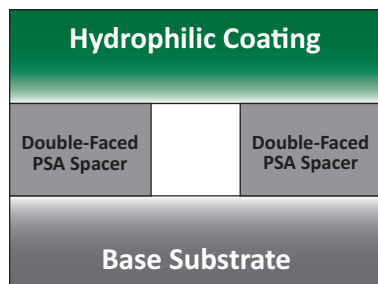
Hydrophilic Heat Seal Adhesives

- Formulated as non-tacky adhesives
- Clean die-cutting formulations
- Tailorable bonding
- Bonds to polymeric substrates with the application of heat
- 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 tacky rigid substrates
- Ideal as a top component for quick capillary flow
- Low contact angle
- Designed for use in combination with a PSA spacer tape

DISCLAIMER OF WARRANTIES

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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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