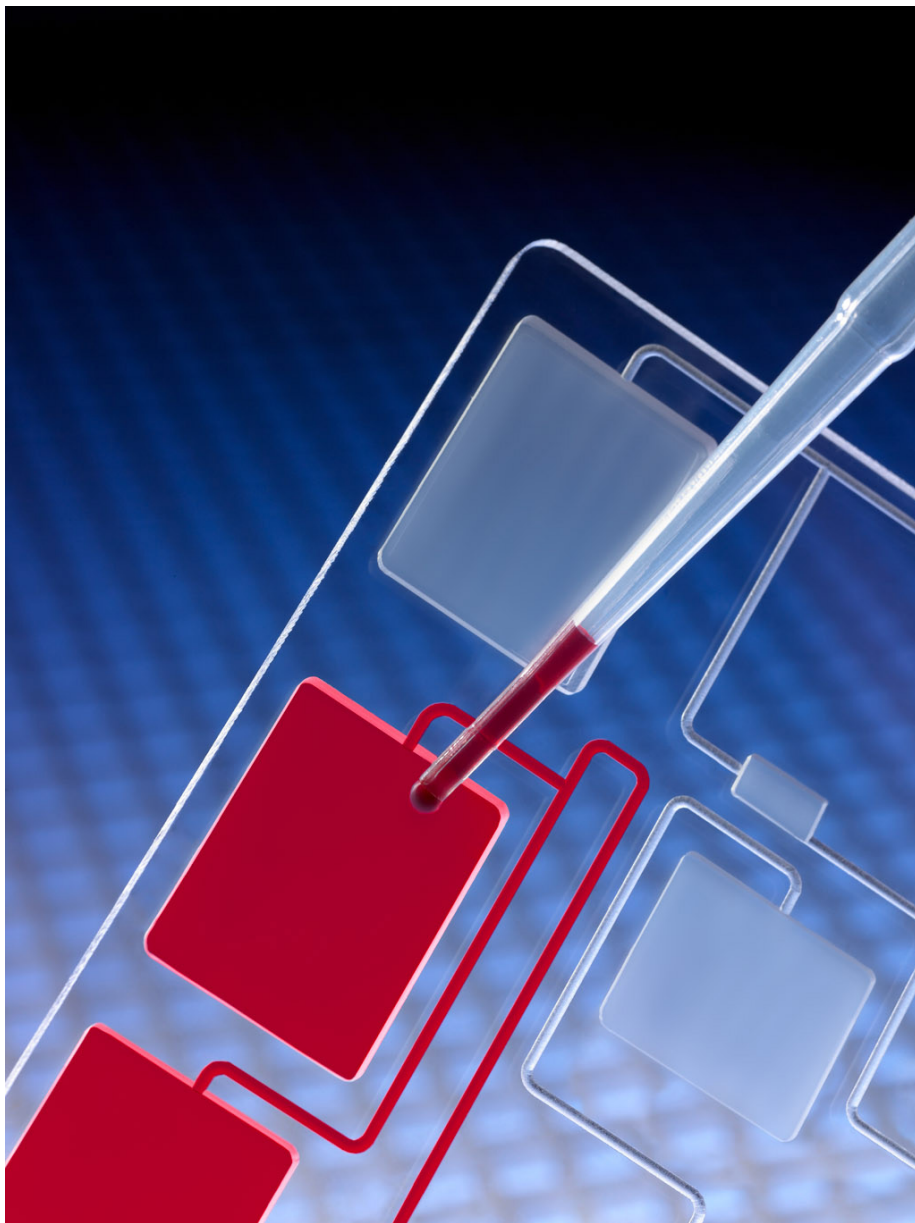
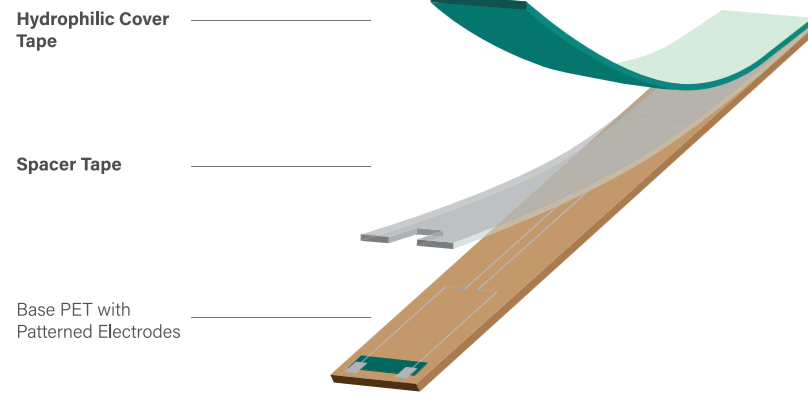


Adhesive Tape Solutions for Diagnostic Device Applications



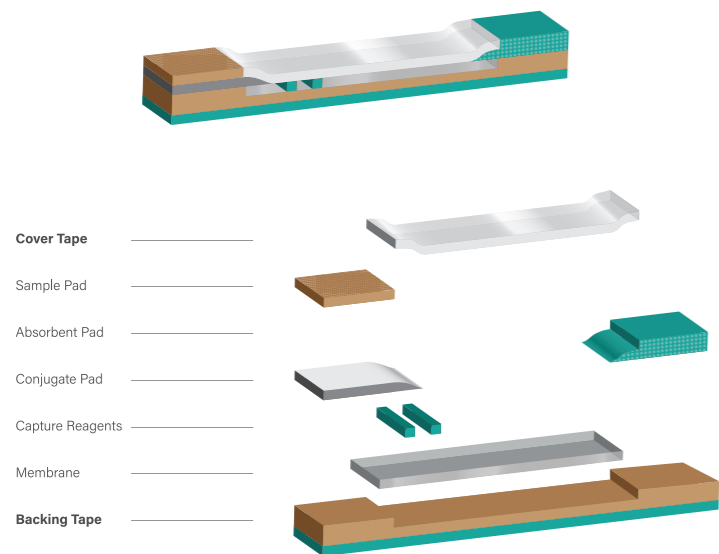
Applications

Blood Glucose Test Strip



- **Highly uniform spacer thickness.**
- **Heat sealable and pressure sensitive adhesive options.**
- **Hydrophilic cover tapes to provide passive fluid flow.**

Lateral Flow Immunoassay



- **Rigid backing tapes for support.**
- **Clear cover tapes for optimal viewing.**
- **Clean, industry tested adhesive technologies.**

Adhesive Guide

Product Number	Adhesive	Carrier	Liner	Total Thickness (w/o liner)	Remark	Format
Cover Tapes						
ARcare® 7759	AS-110	25 µm Clear PET	50 µm Clear PET	56 µm	Acrylic	SCT
ARcare® 7815	AS-110	50 µm Clear PET	50 µm Clear PET	81 µm	Acrylic	SCT
ARcare® 92104	AS-110	75 µm Clear PET	50 µm Clear PET	107 µm	Acrylic	SCT
ARcare® 7922	AS-110	75 µm Al Foil	81 µm Paper	97 µm	Acrylic	SCT
ARcare® 8259	AS-110	125 µm White PET	50 µm Clear PET	157 µm	Acrylic	SCT
ARcare® 9020	AS-110	250 µm Polystyrene	155 µm Paper	279 µm	Acrylic	SCT
ARseal™ 90697	SR-25	50 µm Clear BOPP	50 µm Clear PET	97 µm	Silicone	SCT
ARseal™ 94090	SR-50	50 µm Clear BOPP	50 µm Clear PET	102 µm	Silicone	SCT
ARseal™ 94126	SR-50	100 µm Clear PET	50 µm Clear PET	150 µm	Silicone	SCT
Spacer Tapes						
ARcare® 8252	AS-110	25 µm Clear PET	50 µm Clear PET	109 µm	Acrylic	DCT
ARcare® 8939	AS-110	75 µm White PET	50 µm Clear PET	127 µm	Acrylic	DCT
ARcare® 90445Q	AS-110	25 µm Clear PET	50 µm Clear PET	81 µm	Acrylic	DCT
ARcare® 92660	AS-203	175 µm White PET	50 µm Clear PET	250 µm	Acrylic	DCT
ARcare® 92712	MA-78	12.5 µm Clear PET	50 µm Clear PET	48 µm	Acrylic	DCT
ARcare® 92848	MA-77	50 µm White PET	50 µm Clear PET	97 µm	Polyester (Heat Seal)	DCT
ARcare® 94119	SR-29	50 µm Clear BOPP	50 µm Clear PET	142 µm	Silicone	DCT
Transfer Tapes						
ARcare® 7876	SR-28	N/A	50 µm PET/50 µm PET	56 µm	Silicone	TT
ARcare® 8026	SR-22	N/A	50 µm PET/50 µm PET	25 µm	Silicone	TT
ARcare® 90727	TD-2B	N/A	75 µm PET/50 µm PET	51 µm	Rubber	TT
ARcare® 92524	AS-200	N/A	50 µm PET/50 µm PET	25 µm	Acrylic	TT
ARcare® 93551	AS-203	N/A	50 µm PET/50 µm PET	28 µm	Acrylic	TT
Hydrophilic Tapes						
ARflow® 93025	HY-10	100 µm Clear PET	37.5 µm Clear PET	112 µm	Polyester	SCT
ARflow® 93361	HY-10	100 µm Clear PET	50 µm Clear PE	127 µm	Polyester (Heat Seal)	SCT
ARflow® 93234	HY-33	75 µm Clear PET	50 µm Clear PET	102 µm	Acrylic (Heat Seal)	SCT
ARflow® 93049	HY-32	75 µm Clear PET	37.5 µm Clear PET	102 µm	Acrylic (Pressure Sensitive)	SCT
ARflow® 93687	HY-32	75 µm Clear PET	50 µm Clear PET	102 µm	Acrylic (Pressure Sensitive)	SCT
ARflow® 93450	HY-32	-	50 µm Clear PET	25 µm	Acrylic (Pressure Sensitive)	TT

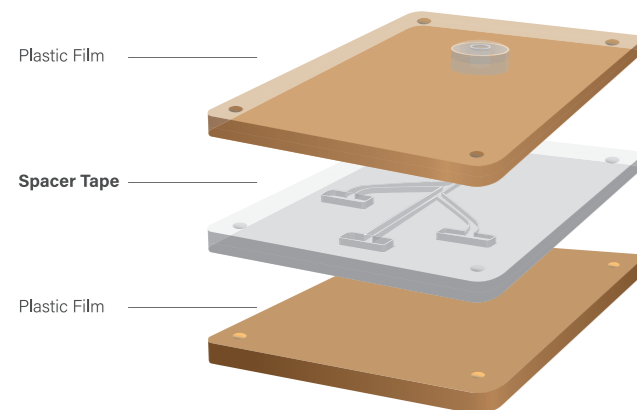
Applications

Microplate Cover/Seal Tape



- Suitable for PCR, ELISA, and other assays.
- Resistant to high temperatures (up to 110°C) and temperature cycling.
- Optically clear options available.

Microfluidic Device



- Enables rapid prototyping and manufacturing.
- Non-cytotoxic and non-interfering adhesive technologies.
- Easily bonds dissimilar surfaces.

Types of Tape Construction

Transfer Tape (TT)

Unsupported adhesive is coated directly onto a release liner, allowing transfer films to be the most flexible and conformable of all bonding systems.

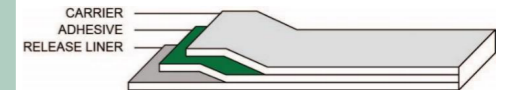
- ✓ Provide thinnest overall height
- ✓ Medical grade, non interacting adhesives
- ✓ High bond strength to a variety of substrates



Single-Coated Tape (SCT)

Single-coated tapes consist of a backing that is coated on one side with an adhesive. Single-coated tapes are available either in selfwound rolls or with a release liner for ease of application.

- ✓ Used as cover tapes
- ✓ Suitable for PCR, ELISA and other assays
- ✓ Hydrophilic options available



Double-Coated Tape (DCT)

Double-coated tapes have a carrier that is coated on both sides with an adhesive. The instant bonding capabilities of double-coated tapes make them very conducive to automation and high-speed processing.

- ✓ Offers ease of handling
- ✓ Spacer thickness from 48 to 250 microns
- ✓ Highly uniform thickness (± 2 microns)
- ✓ Allows for differential adhesion



Heat-activated Film Tape

Heat-activated film tapes require heat and pressure to achieve final bonding to any surface.

- ✓ Clean die cutting
- ✓ High ultimate bond strength
- ✓ Hydrophilic options available





Adhesives Research®

About Adhesives Research:

Adhesives Research is a permanently independent developer and manufacturer of adhesives and coatings for various markets.

We utilize our material knowledge, polymer synthesis/formulation expertise, and versatile manufacturing capabilities to supply key components to the industry. We offer robust products and technologies and can also rapidly customize to meet the specific needs of an application.

Headquartered in Glen Rock, PA. Adhesives Research has also sales and manufacturing facilities in Ireland and sales offices in China and Singapore.

To learn more information about how Adhesives Research can help solve tape and materials engineering challenges, contact us today.



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