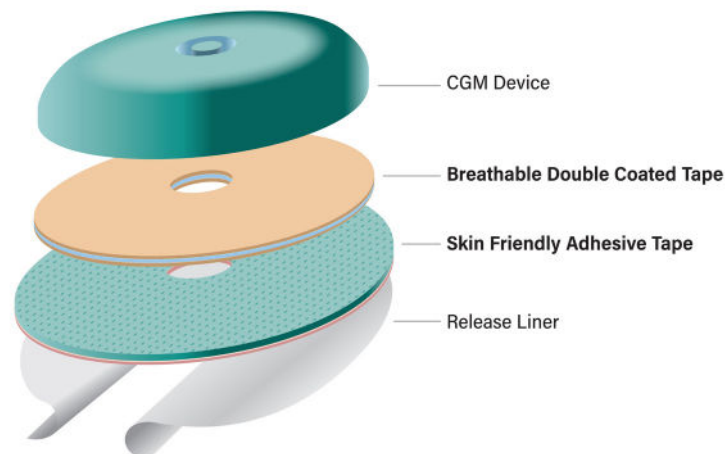


# Adhesive Tape Solutions for Diabetes Care Applications

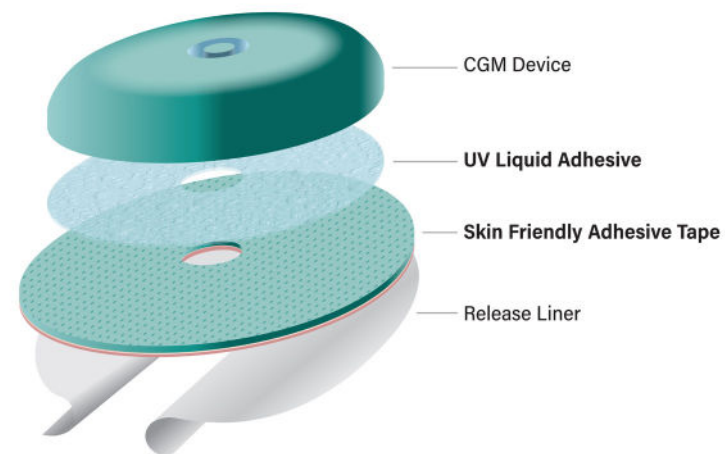


## Applications

### Continuous Glucose Monitor



- **Industry leading long term wear skin tapes provide secure attachment for up to 14-30 days.**
- **Breathable double coated tapes provide high bond strength and prevent trapping of moisture under device.**



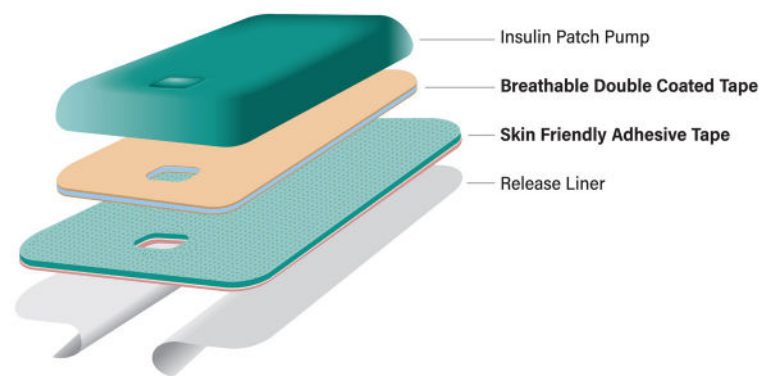
- **Patented UV curable adhesives provide water resistant bonding and low to no residual monomer after cure.**

## Adhesive Guide

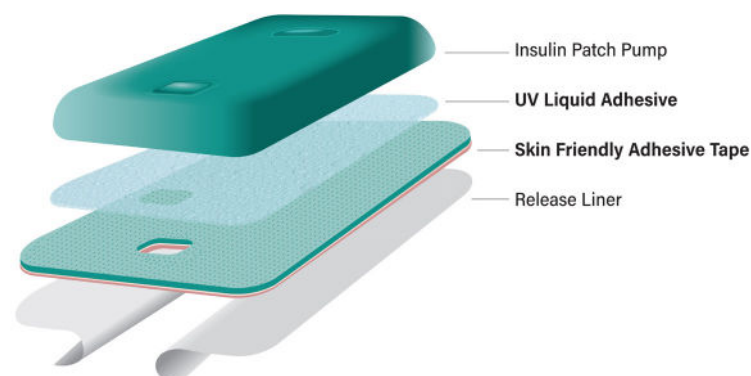
Product Number	Adhesive	Carrier	Liner	Format	Total Thickness (w/o liner)	Application
<b>Long-Term Wear Adhesives (7+ days)</b>						
ARcare® 93690	Acrylic PSA	PU nonwoven (white)	51 µm Clear PET	SCT	203 µm	CGM, ≤ 21 day wear
ARcare® 93439	Acrylic PSA	PET nonwoven (white)	51 µm Clear PET	SCT	345 µm	CGM, Insulin Pump, ≤ 15 day wear
ARcare® 94220	Acrylic PSA	PET nonwoven (white)	81 µm Paper	SCT	345 µm	Insulin pump, ≤ 7 day wear
ARcare® 7261	Acrylic PSA	PET nonwoven (white)	81 µm Paper	SCT	381 µm	Insulin pump, ≤ 5 day wear
<b>Device Bonding Tapes</b>						
ARcare® 93691	Acrylic PSA	scrim	76 µm PET/50 µm PET	DCT	99 µm	CGM, Insulin Pump, Wearables
ARcare® 94180	Acrylic PSA	scrim	76 µm PET/50 µm PET	DCT	135 µm	CGM, Insulin Pump, Wearables
ARcare® 93551	Acrylic PSA	N/A	51 µm PET/51 µm PET	TT	28 µm	CGM, Insulin Pump, Wearables
<b>Spacer Tapes</b>						
ARcare® 8939	Acrylic PSA	76 µm White PET	51 µm Clear PET	DCT	127 µm	BGM Spacer Tape
ARcare® 90445Q	Acrylic PSA	25 µm Clear PET	51 µm Clear PET	DCT	81 µm	BGM Spacer Tape
ARcare® 92712	Acrylic PSA	12.5 µm Clear PET	51 µm Clear PET	DCT	48 µm	BGM Spacer Tape
ARcare® 92848	Heat Seal	51 µm White PET	51 µm Clear PET	DCT	97 µm	BGM Spacer Tape
<b>Hydrophilic Tapes</b>						
ARflow® 93025	Coating	100 µm Clear PET	38 µm Clear PET	SCT	112 µm	BGM Hydrophilic Cover Tape
ARflow® 93234	Heat Seal	76 µm Clear PET	51 µm Clear PET	SCT	102 µm	BGM Hydrophilic Cover Tape
ARflow® 93361	Heat Seal	100 µm Clear PET	51 µm Clear PE	SCT	127 µm	BGM Hydrophilic Cover Tape
ARflow® 93049	Acrylic PSA	76 µm Clear PET	38 µm Clear PET	SCT	102 µm	BGM Hydrophilic Cover Tape
<b>UV Curable Liquid</b>						
ARcare® A-5490	Low Residual UV Curable	6,000	UV-LED/UV-A	Liquid	PC, PVC, ABS, PU, PET, PS, FR4, etc.	CGM, Insulin Pump, Wearables General Bonding and Sealing

## Applications

### Insulin Pump



- **Biocompatible irritation/sensitization-free skin friendly tapes for 3-7 day wear.**
- **Tapes can be welded through heat or ultrasonics for quick attachment.**



- **UV curable adhesives to provide secure bonding of tape to device or for interior device bonding.**

## 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.

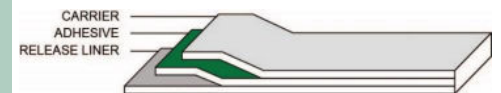
- ✓ Provide thinnest overall height
- ✓ Medical grade, non interacting adhesives
- ✓ High bond strength to a variety of substrates



### 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 ( $\pm 2$  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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**2023, Adhesives Research, Inc.**

**(November 2023)**

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