

**Skin Friendly**  
**Innovative Solutions**



## Capabilities

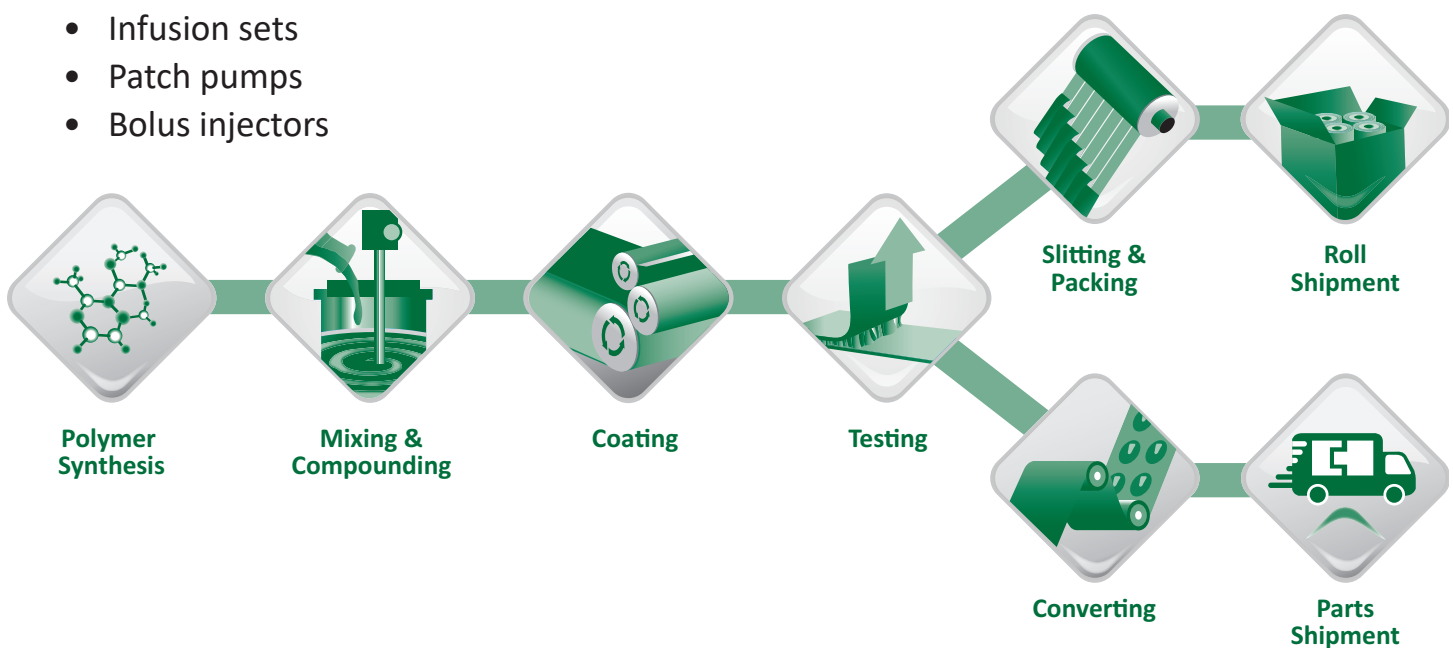
Adhesives Research's pressure-sensitive adhesive and coating technologies are found in the world's leading pharmaceutical products. With nearly 60 years of experience in custom adhesive formulation and processing, AR is dedicated to delivering the highest possible quality and reliability in the design, manufacture and delivery of our products and services. Our experienced staff provides the appropriate cGMP and regulatory support to make your product a success. Our versatile, skin-friendly adhesive platforms provide custom bonding options for body-worn drug delivery devices.

Benefits of our skin-friendly platforms:

- Adhesives formulated for non-interference with active pharmaceutical ingredients
- Tailorable adhesion & substrates for prescribed wear times and activity levels
- Secure bonding of weighted devices to skin for short or prolonged wear times
- Gentle removal from skin and hair
- No residue upon removal
- Re-positionable
- Compatible with gamma sterilization
- Biocompatible

Applications:

- Transdermal drug delivery
- Infusion sets
- Patch pumps
- Bolus injectors



## Skin-Friendly Adhesive Products:



### **Low-Surface Energy Adhesives**

Designed for permanent bonds to low-surface energy materials commonly used in medical and drug delivery devices. These adhesives may be used for device attachment in combination with a skin-friendly adhesive on the opposite side.



### **Weight-Bearing Adhesives**

Body-worn drug delivery and patient monitoring devices present unique challenges for securing a weighted device to skin. Our weight-bearing adhesives support immediate device attachment to skin and secure adhesion for wear durations up to 7+ days.



### **SoftWear™ Adhesives**

Available in silicone and non-silicone formulations, SoftWear adhesives deliver intimate skin contact and gentle removal to enhance patient comfort and minimize the risk of damage to skin. SoftWear is repositionable and releases cleanly from hair and skin.



### **Long-Term Wear Adhesives**

Designed to deliver secure wear times of 7+ days with minimal edge lift and good breathability. These adhesives remove with minimal pain and no residue.



### **Electrically Conductive Adhesives**

Formulated for transmitting current through layers of a device, forming electrical interconnections and bonding electrical components. Skin-friendly formulations are available.

## Skin Friendly Adhesive Products

Product Number	Adhesive Family	Carrier	Liner	Total Thickness (w/o liner)	Adhesive Type	Construction/ Conductivity
<b>Low-Surface Energy Adhesives</b>						
8026	SR-22	-	50μ PET	25μ	Silicone	T/F
7876	SR-18	-	50μ PET	50μ	Silicone	T/F
93684	SR-29	-	50μ PET	25μ	Silicone	T/F
92892	SR-29	-	50μ PET	50μ	Silicone	T/F
92734	AS-221	-	50μ PET	25μ	Rubber	T/F
93551	AS-203	-	50μ PET	25μ	Acrylic	T/F
<b>Weight Bearing Adhesives</b>						
93557	MA-91	PU non-woven (tan)	50μ PET	198μ	Acrylic	S/F
93690	MA-161	PU non-woven (white)	50μ PET	198μ	Acrylic	S/F
<b>SoftWear™ Adhesives</b>						
93257	MA-115	PU film	50μ PET	82μ	Acrylic	S/F
93276	MA-115	non-woven PET	50μ PET	317μ	Acrylic	S/F
93194	MA-115/AS-203	non-woven PET	50μ PET	317μ	Acrylic	D/S
<b>Long-Term Wear Adhesives</b>						
8383	MA-46	PU film	Paper	43μ	Acrylic	S/F
93557	MA-91	PU non-woven (tan)	50μ PET	198μ	Acrylic	S/F
93363	MA-91	PU non-woven (white)	50μ PET	198μ	Acrylic	S/F
93439	MA-128	non-woven PET	50μ PET	317μ	Acrylic	S/F
<b>Electrically Conductive Adhesives</b>						
8001	EC-2	Electrically Conductive non-woven	157μ Paper	122μ	Acrylic	x-y-z
8006	EC-2	-	50μ PET	25μ	Acrylic	x-y-z
90366	EC-2	-	50μ PET	33μ	Acrylic	x-y-z

T/F - Transfer film (adhesive between release liners)

S/F - single face tape

D/S - double sided tape

## Benefits of Adhesives Research's Skin-Friendly Platform

Product Category	Wear Performance	Tailorable Properties	Applications
<b>Low-Surface Energy Adhesives</b>	<ul style="list-style-type: none"> <li>Bonds to wide range of low surface energy materials</li> <li>Low profile, conformable</li> </ul>	<ul style="list-style-type: none"> <li>Permanent or removable bonds</li> <li>Available in transfer and double-faced formats with skin adhesive on opposite side for flexibility in device assembly</li> </ul>	<ul style="list-style-type: none"> <li>Active transdermal devices</li> <li>Infusion sets</li> <li>General device bonding</li> <li>Patch pumps</li> </ul>
<b>Weight-Bearing Adhesives</b>	<ul style="list-style-type: none"> <li>Immediate and secure bond of device to skin</li> <li>Good shear resistance for less device movement</li> <li>Removes without compromise to skin integrity</li> <li>Minimal edge lift</li> </ul>	<ul style="list-style-type: none"> <li>Short term and extended wear duration to 7+ days</li> <li>Adhesion levels</li> <li>Tack</li> <li>MVTR</li> <li>Product construction</li> </ul>	<ul style="list-style-type: none"> <li>Biosensors</li> <li>Bolus injectors</li> <li>Active transdermal devices</li> <li>Patient monitoring</li> <li>Patch pumps</li> <li>Wound care</li> </ul>
<b>SoftWear™ Adhesives</b>	<ul style="list-style-type: none"> <li>Clean release from skin and hair</li> <li>Repositionable</li> <li>Low-pain removal</li> <li>Minimal edge lift</li> </ul>	<ul style="list-style-type: none"> <li>Wear duration from hours to 3 days</li> <li>Tack</li> <li>Adhesion levels</li> <li>MVTR occlusive to highly breathable</li> <li>Product construction</li> </ul>	<ul style="list-style-type: none"> <li>Biosensors</li> <li>Bolus injectors</li> <li>Infusion sets</li> <li>IV site dressings</li> <li>Patient monitoring</li> <li>Patch pumps</li> <li>Transdermal drug delivery</li> <li>Wound care</li> </ul>
<b>Long-Term Wear Adhesives</b>	<ul style="list-style-type: none"> <li>Extended wear times</li> <li>Limited adhesive &amp; device creep</li> <li>Secure wear</li> <li>Low pain removal</li> <li>Minimal edge lift</li> </ul>	<ul style="list-style-type: none"> <li>Wear duration from 3 to 7+ days</li> <li>Tack</li> <li>Adhesion levels</li> <li>MVTR</li> <li>Product construction</li> </ul>	<ul style="list-style-type: none"> <li>Biosensors</li> <li>IV site dressings</li> <li>Patient monitoring</li> <li>Patch pumps</li> <li>Transdermal drug delivery</li> <li>Wound care</li> </ul>
<b>Electrically Conductive Adhesives</b>	<ul style="list-style-type: none"> <li>Thin, reliable bonds with stable consistency</li> <li>Enables electrical conductivity between or across adhesive bonds</li> <li>Stable performance in extreme temperatures &amp; humidity conditions</li> </ul>	<ul style="list-style-type: none"> <li>X, Y &amp; Z conductivity</li> <li>Volume &amp; surface resistance</li> <li>Adhesion levels</li> <li>Tack</li> </ul>	<ul style="list-style-type: none"> <li>Medical electronics</li> <li>Medical devices</li> <li>Wearable sensors</li> <li>Transdermal/combination drug delivery device</li> </ul>




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(Revised 9 July 2020)

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