Innovative silicone adhesives for your medical device
## Adhesives

Pressure sensitive adhesives (PSAs) and soft skin adhesives (SSAs) can be used for wearable monitoring devices, wound care products, medical device attachments, external prosthetic devices and specialty cosmetic applications.

### Innovation Meets Expertise

You want to explore new directions and create the next generation of medical device technology. You have a powerful ally with DuPont. When we are part of your team, you’re backed by our expertise and our culture of discovery and innovation, nurtured by six decades of proven performance. You’ll find a depth of knowledge not just in silicone chemistry, but in the medical device industry and process technology.

### Benefits
- Biocompatibility (non-irritating and non-sensitizing)
- High adhesion and conformity to skin
- Adhesion for extended wear time
- High gas and moisture permeability
- Available in a range of tack options, solvent types and solid contents to help meet application needs and processing constraints

### Product Description

**PSA**

**Dow Corning™ MG Series Pressure Sensitive Adhesives for Medical Devices**

- One-part, polycondensed polydimethylsiloxane/silicate resin adhesives
- Volatile solvent-based silicone adhesives

**Elastomer**

**Dow Corning™ Soft Filling Elastomer**

- Two-part (1:1 by weight), platinum-catalyzed, soft fillerless elastomer

**SSA**

**Dow Corning™ MG Series Soft Skin Adhesives**

- Two-part (1:1 by weight), platinum-catalyzed, soft fillerless elastomeric adhesive

### Typical Applications

**PSA**

- Non-sensitizing adherence of medical devices/appliances (colostomy, ileostomy, surgical dressings/pads, external prosthetic devices and patient monitoring)

**Elastomer**

- Filling material for external foam prostheses and pressure cushions

**SSA**

- Non-sensitizing, gentle adhesion to skin (wound care and scar therapies)

### Processing Methods

**PSA**

- Uses conventional tape coating equipment
- Transfer coating
- Brushing process

**Elastomer**

- Can be applied using conventional hot melt coating equipment

**SSA**

- Knife over roll coating process is recommended

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* Specification writers: These values are not intended for use in preparing specifications. Please contact a DuPont representative prior to writing specifications on these products.

* Adhesion promoters are available. Please contact your DuPont representative for details.
### Biocompatibility Testing

<table>
<thead>
<tr>
<th>Products</th>
<th>Cytotoxicity</th>
<th>Mutagenicity/Genotoxicity</th>
<th>Skin Irritation</th>
<th>Skin Sensitization</th>
<th>Pyrogenicity (USP)</th>
<th>System Toxicity</th>
<th>FDA Drug Master File</th>
<th>Solvent Type</th>
<th>Solid Content (%)</th>
<th>Viscosity at 25°C (cP)</th>
<th>Viscosity at 185°C (cP)</th>
<th>Melt Viscosity at 185°C (cP)</th>
<th>Nominal Tack Value</th>
<th>Peel Adhesion (g/cm)</th>
<th>Shear (kg)</th>
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<tbody>
<tr>
<td>Dow Corning™ MG-2401 Silicone Pressure Sensitive Adhesive&lt;sup&gt;1&lt;/sup&gt;</td>
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<td>Ethyl Acetate</td>
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<th>Viscosity Part A (mPa•s)</th>
<th>Viscosity Part B (mPa•s)</th>
<th>Penetration After Cure (mm/4h)</th>
<th>Adhesion (N/2.5cm)</th>
<th>Release (N/2.5cm)</th>
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<tbody>
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<td>140</td>
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<sup>1</sup> Based on test results on adhesive solids
<sup>▲</sup> Based on biocompatibility test data from analogous materials
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