



Healthcare  
Solutions

## Medical Device Silicone Adhesives

*Application and Product Selection Guide*

Proven Performance.  
Trusted Expertise.



Advancing healthcare through  
**material innovations**



# 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 Dow Corning. 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	Product Description	Typical Applications	Processing Methods
<b>PSA</b>				
<b>Dow Corning® MG Series Pressure Sensitive Adhesives for Medical Devices</b>	<ul style="list-style-type: none"> <li>• Biocompatibility (non-irritating and non-sensitizing)</li> <li>• High adhesion and conformity to skin</li> <li>• Adhesion for extended wear time</li> <li>• High gas and moisture permeability</li> <li>• Available in a range of tack options, solvent types and solid contents to help meet application needs and processing constraints</li> </ul>	One-part, polycondensed polydimethylsiloxane/silicate resin adhesives Volatile solvent-based silicone adhesives	<ul style="list-style-type: none"> <li>• Non-sensitizing adherence of medical devices/appliances (colostomy, ileostomy, surgical dressings/pads, external prosthetic devices and patient monitoring)</li> </ul>	Uses conventional tape coating equipment <ul style="list-style-type: none"> <li>• Transfer coating</li> <li>• Brushing process</li> </ul>
		One-part, polycondensed polydimethylsiloxane/silicate resin adhesive Hot melt silicone adhesive		Can be applied using conventional hot melt coating equipment
<b>Elastomer</b>				
<b>Dow Corning® Soft Filling Elastomer</b>	<ul style="list-style-type: none"> <li>• Transparent</li> <li>• Low viscosity</li> </ul>	Two-part (1:1 by weight), platinum-catalyzed, soft fillerless elastomer	<ul style="list-style-type: none"> <li>• Filling material for external foam prostheses and pressure cushions</li> </ul>	
<b>SSA</b>				
<b>Dow Corning® MG Series Soft Skin Adhesives</b>	<ul style="list-style-type: none"> <li>• Transparent</li> <li>• Low viscosity</li> </ul>	Two-part (1:1 by weight), platinum-catalyzed, soft fillerless elastomeric adhesive	<ul style="list-style-type: none"> <li>• Non-sensitizing, gentle adhesion to skin (wound care and scar therapies)</li> </ul>	Knife over roll coating process is recommended

• Specification writers: These values are not intended for use in preparing specifications. Please contact a Dow Corning representative prior to writing specifications on these products.  
 • Adhesion promoters are available. Please contact your Dow Corning representative for details.

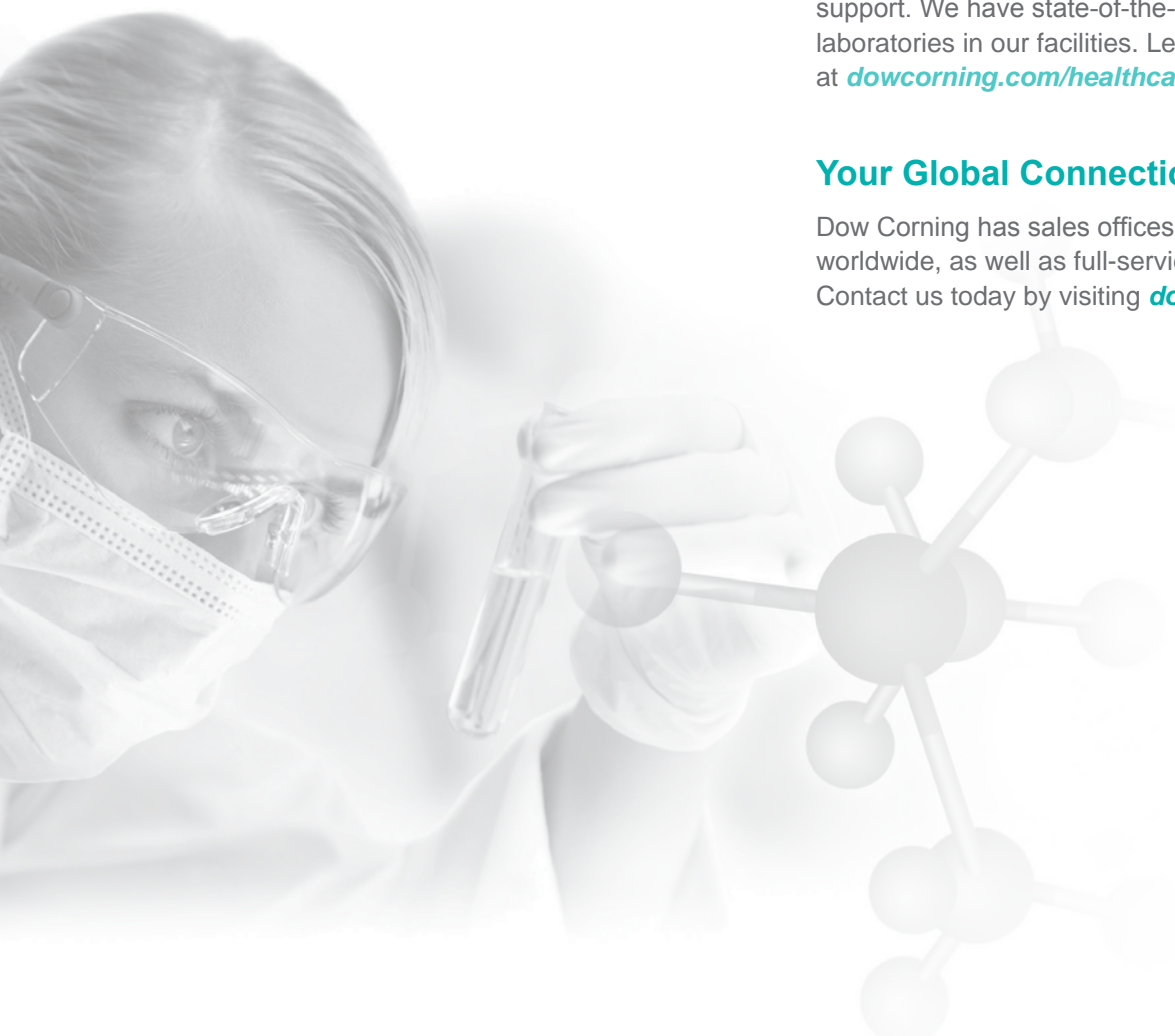
## Biocompatibility Testing

### Products

Products	Cytotoxicity	Mutagenicity/ Genotoxicity	Skin Irritation	Skin Sensitization	Pyrogenicity (USP)	System Toxicity	FDA Drug Master File	Solvent Type	Solid Content (%)	Viscosity at 25 °C (cP)	Melt Viscosity at 185 °C (cP)	Nominal Tack Value	Peel Adhesion (g/cm)	Shear (kg)
Dow Corning® MG-2401 Silicone Pressure Sensitive Adhesive <sup>1</sup>	•		•	•				Hexa-methyl-di-siloxane	32	90	Not Applicable	Medium	700	21
Dow Corning® MG-2402 Silicone Pressure Sensitive Adhesive <sup>1</sup>	•		•	•				Ethyl Acetate	64	2500	Not Applicable	Medium	700	21
Dow Corning® MG-2502 Silicone Pressure Sensitive Adhesive <sup>1</sup>	•		•	•				Ethyl Acetate	59	2000	Not Applicable	High	670	16
Dow Corning® MG-2410 Silicone Pressure Sensitive Adhesive <sup>1</sup>	•		•	•				Not Applicable	100	Not Applicable	30300	Very High	590	9
								Viscosity Part A (mPa·s)	Viscosity Part B (mPa·s)	Penetration After Cure (mm/10)	Adhesion (N/2.5cm)	Release (N/2.5cm)		
Dow Corning® 7-9600 Soft Filling Elastomer	•	•	•	•	•	•	•	470	470	245-275	0.1	Not Applicable		
Dow Corning® MG7-9700 Soft Skin Adhesive	•		•	•				500	320	90	0.6	0.11		
Dow Corning® MG7-9800 Soft Skin Adhesive	•		•	•			•	500	320	90	0.6	0.11		
Dow Corning® MG7-9850 Soft Skin Adhesive	▲		▲	▲			•	2900	2900	135	1.1	0.03		
Dow Corning® MG7-9900 Soft Skin Adhesive	▲		▲	▲			•	5100	5100	140	1.9	0.05		

<sup>1</sup> Based on test results on adhesive solids

▲ Based on biocompatibility test data from analogous materials



## Contact Dow Corning

When you need innovation, Dow Corning can help. We are dedicated to meeting your needs for specialty materials, collaborative problem solving and innovation support. We have state-of-the-art application center laboratories in our facilities. Learn how we can help you at [dowcorning.com/healthcare](http://dowcorning.com/healthcare).

## Your Global Connection

Dow Corning has sales offices and manufacturing facilities worldwide, as well as full-service, global technical support. Contact us today by visiting [dowcorning.com/ContactUs](http://dowcorning.com/ContactUs).

Images: AV06728, AV24840, AV06729, AV24799, AV24841, AV19192

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