

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™ Liveo™. 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
PSA				
Liveo™ MG Series Pressure Sensitive Adhesives for Medical Devices	<ul style="list-style-type: none"> • 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 	One-part, polycondensed polydimethylsiloxane/silicate resin adhesives	<ul style="list-style-type: none"> • Non-sensitizing adherence of medical devices/appliances (colostomy, ileostomy, surgical dressings/pads, external prosthetic devices and patient monitoring) 	Formulate and package as a spray adhesive
		Volatile solvent-based silicone adhesives		<ul style="list-style-type: none"> • Transfer coating • Brushing process
		One-part, polycondensed polydimethylsiloxane/silicate resin adhesive Hot melt silicone adhesive		Can be applied using conventional hot melt coating equipment
SSA				
Liveo™ MG Series Soft Skin Adhesives	<ul style="list-style-type: none"> • Biocompatibility (non-irritating and non-sensitizing) • Tackiness • Gentle removal from skin • Repositionability to skin • Available in a range of softness and adhesion options to help meet application needs 	<ul style="list-style-type: none"> • Two-part (1:1 by weight), platinum-catalyzed, soft fillerless elastomeric adhesive • Two-part, solvent-less, low viscosity silicone adhesive • Transparent 	<ul style="list-style-type: none"> • Non-sensitizing, gentle adhesion to skin (wound care and scar therapies) 	Knife over roll coating process is recommended

• 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

Products	Cytotoxicity	Skin Irritation	Skin Sensitization	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)			
												Viscosity Part A (mPa·s)	Viscosity Part B (mPa·s)	Penetration After Cure (mm/10)
Liveo™ MG-2401 Silicone Adhesive ¹	•	•	•		Hexa-methyl-di-siloxane	32	90	Not Applicable	Medium	700	21			
Liveo™ MG-2402 Silicone Adhesive ¹	•	•	•		Ethyl Acetate	64	2500	Not Applicable	Medium	700	21			
Liveo™ MG-2502 Silicone Adhesive ¹	•	•	•		Ethyl Acetate	59	2000	Not Applicable	High	670	16			
Liveo™ MG-2410 Silicone Adhesive ¹	•	•	•		Not Applicable	100	Not Applicable	30300	Very High	590	9			
Liveo™ 7-9700 Soft Skin Adhesive	•	•	•			500	320	90		0.6	0.11			
Liveo™ MG 7-9800 Soft Skin Adhesive	•	•	•	•		500	320	90		0.6	0.11			
Liveo™ MG 7-9850 Soft Skin Adhesive	▲	▲	▲	•		2900	2900	135		1.1	0.03			
Liveo™ MG 7-9900 Soft Skin Adhesive	▲	▲	▲	•		5100	5100	140		1.9	0.05			
Liveo™ MG 7-9960* Soft Skin Adhesive	•	•	•			5000	5000	145		2.8	0.06			

¹ Based on test results on adhesive solids

▲ Based on biocompatibility test data from analogous materials

* Liveo™ MG 7-9960 SSA has been designed to meet the Substance of Very High Concern (SVHC) threshold for Concerned Cyclosiloxanes (below 0.1%) proposed by REACH regulation (EC) No 1907/2006.



To learn more about DuPont's healthcare solutions visit:
www.dupont.com/healthcare.html

For country-level information, visit:
www.dupont.com/corporate-functions/our-company/global-locations.html



CAUTION: DO NOT USE DUPONT MATERIALS IN MEDICAL APPLICATIONS INVOLVING PERMANENT IMPLANTATION IN THE HUMAN BODY OR PERMANENT CONTACT WITH INTERNAL BODILY FLUIDS OR TISSUES. DO NOT USE DUPONT MATERIALS IN MEDICAL APPLICATIONS INVOLVING BRIEF OR TEMPORARY IMPLANTATION IN THE HUMAN BODY OR PERMANENT CONTACT WITH INTERNAL BODILY FLUIDS OR TISSUES UNLESS THE MATERIAL HAS BEEN PROVIDED DIRECTLY BY DUPONT UNDER A CONTRACT THAT EXPRESSLY ACKNOWLEDGES THE CONTEMPLATED USE.

The information, suggestions and data contained herein are intended only as an informational guide to assist you in making preliminary selections of materials and are not intended to be all-inclusive or final. Because DuPont cannot anticipate or control the many different conditions under which this information, data, suggestions or materials may be used, DuPont does not guarantee the applicability or the accuracy of this information or the suitability of the information, data, suggestions, or materials in any given situation. The information, data, or suggestions are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a particular material for a particular purpose. DuPont makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. Such information, data or suggestions are to be used and relied upon at user's own discretion and risk. DuPont makes no warranties, express or implied, and disclaims any and all direct and indirect liability for damages or losses resulting from or relating to the use of any information, suggestion, data, or materials described herein. Statements concerning the use of the products or formulations described herein are not to be construed as recommending the infringement of any patent, copyright, designs or other intellectual property and no liability for infringement arising out of such use is assumed by DuPont. None of this information is to be considered as a license to operate under, or recommendation to infringe, any patents.

DuPont reserves the right not to sell Special Control and Premium Control products for selected applications.

Although these products are tested against certain USP Class VI and ISO 10993 standards, DuPont makes no representation or warranty of suitability of its products for particular healthcare or medical applications or any other representations or warranties based on such testing.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable. It is intended for use by persons having technical skill at their own discretion and risk. DuPont makes no warranties, express or implied, and assumes no liability in connection with any use of this information.

DuPont™, the DuPont Oval Logo, and all products, unless otherwise noted, denoted with ™, SM or © are trademarks, service marks or registered trademarks of affiliates of DuPont de Nemours, Inc.

© 2022 DuPont de Nemours, Inc. All rights reserved.

Form Number: 001-20388-CDP0922