



Liveo™ BIO-PSA 7-4501

Silicone Adhesives

Liveo™ BIO-PSA 7-4501 is a Standard pressure sensitive adhesive specifically designed for transdermal drug delivery systems.

These adhesives are permeable to many drugs and excipients and are designed to adhere drug-loaded systems to the skin.

Liveo™ BIO-PSA Standard Silicone Adhesives are produced through a condensation reaction of a silanol endblocked polydimethylsiloxane (PDMS) with a silicate resin.

Quality information

The FDA registered and ISO 9001:2015 certified Healthcare Industries Materials Site (HIMS site) is responsible for ensuring consistent product quality.

Regulatory and Biocompatibility information

The solids found in the Liveo™ BIO-PSA Silicone adhesives have passed biocompatibility tests that meet current USP biological reactivity in vivo test requirements. Adhesive solids were further evaluated for acute effects using direct topical application of the adhesive solids or extracts. The material did not produce a sensitisation reaction when applied to the skin of albino guinea pigs. Test summaries are available upon request.

Product Regulatory Information document as well as Summary of health data are available from our DuPont website or upon request.

Packaging:

These products are typically supplied in 16 kg pails and 180 kg drums, net weight. Samples are available in 450 g bottles.

Product information

Solvent	Heptane -
Solid content	70 %

Rheological properties

Viscosity	1800 mPa.s
Complex viscosity, 0.01 rad/s at 30°C	5E6 Pa.s

Tape properties

Shear strength, 6.3 cm ² tape	16 kg
Tack level	Medium -
Peel adhesion, stainless steel	700 g/cm



Liveo™ BIO-PSA 7-4501

Silicone Adhesives

Thermal properties

Flash point -3.9 °C ASTM D 92

Storage and stability

Shelf life 72¹ months

1: stored at or below room temperature in the original unopened containers,

Additional Information

How to use

Liveo™ BIO-PSA 7-4501 Silicone Adhesive is supplied in heptane which is flammable. Precautions appropriate to the solvent must be observed. Before handling, read the Safety Data Sheet for safe use, physical and health hazard information.

Liveo™ BIO-PSAs may be provided in other solvent choices by special arrangement.

Liveo™ BIO-PSA 7-4501 Silicone Adhesive may be applied to a liner, as supplied using conventional tape coating equipment. This adhesive bonds very strongly to many substrates so fluoropolymer release liners are recommended. This adhesive can also be further diluted with compatible solvents or blended with drugs, excipients or other silicone pressure sensitive adhesives before being coated.

Safety warning

Before handling, please consult the corresponding material safety data sheets. These are available upon request or can be downloaded from our DuPont website :

The information set forth herein is furnished free of charge, is based on technical data that DuPont believes to be reliable, and represents typical values that fall within the normal range of properties. This information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in other processes. It is intended for use by persons having technical skill, at their own discretion and risk. This information should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards and comply with applicable law. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

CAUTION: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract or other acknowledgement that is consistent with the DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative.

DuPont's sole warranty is that our products will meet our standard sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DUPONT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR NON-INFRINGEMENT. DUPONT DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.