



# Liveo™ BIO-PSA 7-4502

## Silicone Adhesives

Liveo™ BIO-PSA 7-4502 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	Ethyl Acetate -
Solid content	60 %

### 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 <sup>2</sup> tape	16 kg
Tack level	Medium -
Peel adhesion, stainless steel	700 g/cm



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### Thermal properties

Flash point -4.4 °C ASTM D 92

### Storage and stability

Shelf life 72<sup>1</sup> months

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

### Additional Information

#### How to use

Liveo™ BIO-PSA 7-4502 Silicone Adhesive is supplied in ethyl acetate 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 7-4502 Silicone Adhesive may be applied to a liner, as supplied using conventional tape coating equipment. This adhesive bond 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 :

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