



Liveo™ BIO-PSA 7-4560

Silicone Adhesives

Liveo™ BIO-PSA 7-4560 is a standard hotmelt silicone adhesive, specifically designed for transdermal drug delivery systems.

It can be melted for coating, and then will return to a generally flowless state upon cooling.

Liveo™ BIO-PSAs adhesives are permeable to many drugs and excipients and are designed to adhere drug-loaded systems to the skin.

Liveo™ BIO-PSA 7-4560 is produced through a condensation reaction of a silanol endblocked polydimethyl-siloxane (PDMS) with a silicate resin. The addition of a PDMS plasticizer to the condensate provides the adhesive's hot melt characteristics.

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

Liveo™ BIO-PSA 7-4560 Silicone Adhesive solids have passed biocompatibility tests that meet current USP Biological Reactivity in vivo test requirements. USP intracutaneous reactivity tests indicate the adhesive is also non-irritating. Adhesive extracts were further evaluated for acute toxicity effects using direct topical application of the adhesive extracts. The material did not produce a sensitization reaction when applied to the skin of albino guinea pigs.

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 180 kg drums, net weight.

Product information

Solvent	None -
Solid content	100 %

Rheological properties

Viscosity	25000 ¹ mPa.s
Complex viscosity, 0.01 rad/s at 30°C	30000 Pa.s

1: melt viscosity at 185°C



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Tape properties

Shear strength, 6.3 cm ² tape	11 kg
Tack level	Very High -
Peel adhesion, stainless steel	300 g/cm

Storage and stability

Shelf life	24 ² months
2: stored at or below room temperature in the original unopened containers,	

Additional Information

How to use

Liveo™ BIO-PSA 7-4560 Silicone Adhesive is supplied as a solid resinous material. It can be melted for coating, and then will return to a generally flowless state upon cooling. As supplied, this adhesive may be applied to a liner by conventional hot melt coating equipment. Release liners composed of a fluoropolymer are recommended.

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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