

capLING LINQSIL™ S100 Mold Release

Epoxy, Polyurethane and Polyester Resin Mold Release



+ SILICONE BASED MOLD RELEASE

+ HIGH PERFORMANCE AT HIGH OPERATING TEMPERATURES

+ HOT AND COLD CURING SYSTEMS



PRODUCT DESCRIPTION

Silicone based mold release designed to release epoxy, polyurethane and polyester resins from their molds



PRODUCT APPLICATION

Can be used in hot and cold curing systems. Used in active and passive semiconductor molds, transformers, inductors, relays, and electro-medical applications



PRODUCT FEATURES

Silicone based mold release with incomparable part release characteristics and outstanding rust proofing characteristics.

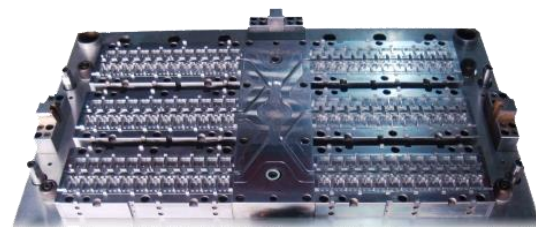


PRODUCT DESCRIPTION

LinqSil™ S-100 is a high-performance, high operating temperature mold release designed to release epoxy, polyurethane and polyester resins from their molds. Used extensively in the semiconductor passive device industry, it is an effective and versatile mold release agent for epoxy mold compounds.

Despite being silicone-based, it is **completely compatible with epoxy molding compounds, as well as liquid hot- and cold-curing epoxy-, polyurethane and polyester resins.** For EPDM, Nitrile and thermoplastic molding, please refer to **LinqSil S200**, and for flexible or rigid integral foams, please refer to **LinqSil S300**.

LinqSil S100 has been designed not to char or burn at high temperatures, making it extremely well suited for high temperature molding. It has been used **successfully in applications running as hot as 200 °C.** Despite being extremely well suited to high temperature applications, no heat-treatment is required to activate the mold release, so it is equally well-suited to cold-curing or room-temperature curing chemistries.



Designed for Epoxy, Polyurethane and Polyester Molds

PRODUCT APPLICATION



LinqSil S100 can be used even with complicated moldings, to achieve perfect separation. **It builds on any mold**, which is why expensive mold cleanings remain limited to a minimum. Contours and dimensional stability of the forms are not altered by LinqSil S-100. It is equally good for use on metal as well as plastic molds.

► **LinqSil S-100 has an excellent lubricating effect which has three main benefits:**

- The life of the **mold is prolonged**
- The demolded parts have a **beautiful finish surface**
- Very thin, or highly flexible or sensitive parts do **not rip or tear on removal**

► Applications

- Epoxy, Polyurethane and Polyester Resin Mold Release
- Mold release for active semiconductors (ICs, TQFPs, BGAs, etc.)
- Mold release for passive semiconductors (resistors, capacitors)
- Mold release for transformers, inductors, relays, and electro-medical applications
- New mold break-in
- Hot and cold curing systems



PRODUCT FEATURES

PRODUCT PROPERTIES	UNIT	VALUE
Flash Point	°C	-20°C
Maximum Application Temperature	°C	260°C
Color	N/A	White/Transparent

CHEMICAL PERFORMANCE		
Material Displacement	Tensile Strength	Max
ABS	■ ■ □	■ ■ ■
Acelat	■ ■ ■	■ ■ ■
Acrylic	■ ■ ■	□ □ □
Epoxy (liquid)	■ ■ ■	■ ■ ■
Epoxy (mold compound)	■ ■ ■	■ ■ ■
PEI	■ ■ □	■ ■ □
PET	■ ■ □	■ ■ ■
Polycarbonate	■ ■ □	□ □ □
Polyethylene	■ ■ ■	■ ■ □
Polypropylene	■ ■ ■	□ □ □
Polyurethane	■ ■ ■	■ ■ ■
PPS	■ ■ □	■ ■ ■
EPDM Rubber	■ ■ □	■ ■ □

▶ PRODUCT FEATURES & BENEFITS

- Silicone lubricant, tailored to **transfer molding processes**.
- High Operating temperatures, **high performance**
- 20 years **successful in very critical processes**
- Works perfect with Epoxies, **it does not mix at all!**
- Very **competitive pricing**
- Incomparable part release characteristics
- Outstanding rust proofing characteristics

▶ PRODUCT NOMENCLATURE

S : Silicone Based

100 : For Epoxy, Polyurethane and Polyester resins

- ■ ■ - Very Compatible: Material Property Retention of 90-100+%
- ■ □ - Moderately Compatible: Material Property Retention of 80-89%
- □ □ - Not Compatible: Material Property Retention of less than 80%



PRODUCT FEATURES

DIRECTIONS FOR USE

For best results, during the production process, a thin, uniform thickness layer of **LinqSil S-100** should be sprayed on the mold. When properly applied, the release agent has no build up on the mold and you should see a shiny surface.

Once the mold has been completely conditioned, **LinqSil S-100™** should only be sprayed once per mold cycle. In general, the film applied should be non-visible and there should definitely not appear to have an oily surface. If the surface appears oily, then there has been an overapplication of material and excess material should be removed with a lint-free cloth.

PACKAGING

LinqSil S-100™ is delivered in 400 ml cans and is provided with a multi-way valve, so that the can may be completely emptied, even with difficult shapes.

STORAGE AND HANDLING

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

DATA RANGES

The data contained herein may be reported as a typical value and/or range values based on actual test data and are verified on a periodic basis.

The above figures are typical material properties only and are not to be used for product specification purposes. To generate a specification for this product, please contact our Quality Manager and request a copy of the current stock specification. The information and recommendations supplied in this document are believed to be accurate but no guarantee of their accuracy is made; they are for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitations any warranty of merchantability and fitness for use. It is recommended that purchasers before using this product conduct their own tests to determine whether the product is suitable for their particular purposes under their own operating conditions.



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