CHEMLINQ™ **MRE-S101**

Silicone Mold Release Spray

- High temperature resistance
- Compatible to epoxy, urethane, and most thermoplastic compounds
- Excellent surface finish

CHEMLINQ MRE-S101 is a highly effective mold release agent designed for use with a wide range of materials, including polyurethane elastomers, epoxy resins, and thermoplastics. It ensures proper separation even in complex molds without requiring heat treatment, and it performs reliably at temperatures up to 200 °C. CHEMLINQ MRE-S101 minimizes mold cleaning due to its low build-up and provides an excellent surface finish, making it ideal for applications requiring precision and high-quality molding.

Specifications

Uncured Properties	
Color	White/Transparent
Solvent	Hydrocarbon
Propellant	Butane/Propane

Cured Properties	Value	Unit
Specific Gravity	1.18	g/cc
Tensile Strength	13.8	MPa
Elongation: Machine Direction Transverse Direction	300 390	%
Dart Impact Test 50% Failure Weight	390±10	g

Chemical Performance

Material	Tensile Strength	Maximum Displacement
ABS	■■■	■■■
Acetal	■■■	■■■
Acrylic	■■□	□□□
Epoxy	■■■	■■■
PEI	■■■	■■□
PET	■■■	■■■
Polycarbonate	■■■	□□□
Polyethylene	■■■	■■□

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Chemical Performance

Material	Tensile Strength	Maximum Displacement
Polypropylene	▪▪▪	▫▫▫
PPO	▪▪▪	▫▫▫
PPS	▪▪▪	▪▪▪
SBR Rubber	▪▪▪	▫▫▫

▪▪▪ *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%*

Instructions for Use

- Ensure the mold surface is clean and free from dust, grease, or previous residues before application.
- **Release Agent Application:** Shake the aerosol can thoroughly before use. Hold the can approximately 20–30 cm (8–12 inches) from the mold surface. Spray a thin, even coat over the entire mold surface. Avoid over-application to prevent an oily surface finish.
- **Molding Process:** Allow the mold to dry, forming a barely visible, non-palpable film. Proceed with the molding process. CHEMLINQ MRE-S101 works at temperatures up to 200 °C.
- Reapply as needed. For each molding cycle, apply a thin layer to maintain clean, dry, and easy part removal without sticking or tearing.
- **Post-Molding Care:** After molding, if excessive build-up occurs over time, clean the mold as necessary to maintain optimal performance.

Storage and Handling

CHEMLINQ™ MRE-S101 silicone spray is supplied in aerosol cans and should be kept in a cool (10–25 °C), dry place (40–75% humidity) away from direct sunlight or temperature extremes. Once removed from packaging it should be protected against flammable environments and other impurities.