

Mold Releases

Review the chart below to choose the product with the characteristics that are critical for your application and that work well with the resin you will be using.

| | Economist | Paintable | LMR | Quick Silicone | Quick Paintable | Quick Lecithin | Silicone | Polycarbonate | Universal | E/S Water Based Silicone | E/S Water Based Lecithin | Pure Eze | Zinc Stearate | Dry Film Lube | Water Soluble | Mold Saver | Electronic | Hi Temp 1800 | Urethane | Thermoset | Dura Kote | Epoxease | Knock Out |
|-------------------------------------|------------------------------------|-----------|-----|----------------|-----------------|----------------|----------|---------------|-----------|--------------------------|--------------------------|----------|---------------|---------------|---------------|------------|------------|--------------|----------|-----------|-----------|----------|-----------|
| MOLD RELEASE CHARACTERISTICS | No ozone depleting chemicals | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Food Approved Silicone | ● | | | ● | | ● | | | ● | | | | | | | | | | | | | |
| | Food Approved Non-Silicone | | | ● | | ● | | | ● | | ● | ● | | | | | | | | | | | ● |
| | Paintable | | ● | ● | | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● |
| | Fast Acting Solvent | | | | ● | ● | ● | | | | | | | | | | ● | | | ● | ● | ● | |
| | Will not interfere with bonding | | | ● | | | ● | | | ● | | | ● | ● | ● | | | ● | | | | | ● |
| | Ultrasonic welding compatible | | | ● | | | ● | | | ● | | ● | ● | ● | ● | ● | ● | ● | ● | | | | ● |
| | Medical Molding | | | | | | | | | ● | | | ● | | | | | | | | | | |
| | Safe on solvent sensitive plastics | ● | ● | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | |
| | Odorless | ● | ● | ● | | | | ● | ● | ● | | ● | ● | ● | ● | ● | | ● | ● | ● | | | ● |
| RECOMMENDED MOLD RELEASE | ABS | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Acetal | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Acrylic | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Epoxy & Phenolic | | | | | | | | | | | | | | | | | | | | ● | ● | ● |
| | Norel | ● | | | ● | | | ● | | ● | | | ● | ● | ● | ● | | | | | | | ● |
| | Nylon | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | | | | | | ● |
| | Polycarbonate | ● | ● | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | ● |
| | Polyester | | | | | | | | | | | | | | | | | | | | | | ● |
| | Polyethylene | | | ● | | | ● | | | ● | | | ● | ● | | | | | | | | | ● |
| | Polypropylene | | | ● | | | ● | | | ● | | | ● | ● | | | | | | | | | ● |
| | Polystyrene | ● | ● | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | ● |
| | Polysulfone | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | | | | | | ● |
| | PVC | | | | | | | | | ● | | | ● | | | | ● | | | | | | ● |
| | Rubber | ● | ● | ● | | | | ● | ● | ● | | | ● | ● | ● | | | | | | ● | | ● |
| | Urethane | | | | | | | | | ● | | | ● | | ● | | | | | ● | | ● | ● |
| Wax | ● | | | | | | ● | | | | | ● | | | | | | | ● | | | ● | |

● = Most Recommended

This release/resin recommendation chart is intended to be a general guide based on field testing performed over the last 50 years. Always pre-test any release with a particular resin. Mold configuration and condition can greatly affect part releaseability.

Light Duty Releases

ECONOMIST®

- FDA Approved Lubricant
- Approved for food machinery
- Non-staining and Odorless
- Maximum temperature: 600°F
- Net Wt. 11.5 oz.
- Underwriters Labs Recog.



EconoMist contains the same high-quality ingredients as premium Silicone Release except formulated to be used for light-duty applications.

PAINTABLE

- Light-duty biodegradable release
- Paint, plate & hot stamp over it
- Perfect finish and Odorless
- Maximum temperature: 650°F
- Net Wt. 11.5 oz.
- Underwriters Labs Recog.



Paintable mold release is an ideal production line release. No special cleaning is needed before part decoration. You get perfect finishes every time and at least 25% more cycles per can over other comparable releases.

LMR® LECITHIN

- Non-silicone paintable
- Light-duty natural release
- FDA Approved Lubricant
- A direct food additive
- Biodegradable & odorless
- Maximum temperature: 500°F
- Net Wt. 11.5 oz.



Use LMR for most injection and compression molding and some flexible and semi-flexible urethane foams. Neutral in color and odorless, it is non-silicone, fully paintable, non-crazing and will not interfere with part bonding, heat sealing, laminating, ultrasonic welding or post-decorating. No build up on mold surfaces and minimal migration.

Medium Duty Releases

QUICK SILICONE

- All-temperature silicone release
- FDA Approved lubricant
- Fast-drying on cold and hot molds
- No chlorinated solvents
- Maxitemp: 600°F, Wt. 12 oz.
- Underwriters Labs Recog.



Imparts a smooth, dry non-toxic film. Silicone is FDA approved and USDA approved for food machinery.

QUICK PAINTABLE

- All-temperature paintable release
- Fast-drying on cold and hot molds
- No chlorinated solvents
- Biodegradable
- Maximum temperature: 650°F
- Net Wt. 12 oz.



Imparts a smooth, dry non-toxic film. Use Paintable where parts will be painted, hot-stamped or metalized or otherwise decorated.

QUICK LECITHIN

- Non-silicone paintable
- All-temperature lecithin release
- FDA Approved lubricant
- Fast-drying on cold and hot molds
- No solvents & Biodegradable
- Maximum temperature: 500°F
- Net Wt. 12 oz.



Imparts a smooth, dry, non-toxic film. Lecithin is food-approved and paintable.

Heavy Duty Releases


SILICONE

- FDA Approved lubricant
- No ozone depleting chemicals
- Faster molding & more production
- Eliminates rejects and heat stable
- Lubricates and is Non-staining
- Maximum temperature: 600°F
- Underwriters Labs Recog.



High-quality oil provides more cycles per 12oz can. Very effective for all plastic molding operations, injection or compression.

POLYCARBONATE 41412N

- Paintable release
- No ozone depleting chemicals
- No crazing or blemishing
- Biodegradable & odorless
- Maximum temperature: 650°F
- Net Wt. 12 oz.
-  Underwriters Labs Recog.



Specially developed for polycarbonate resins, 41412N is ideal where parts are to be painted, hot-stamped or metalized. Approved by the General Electric Co. for use on Lexan* resin.

UNIVERSAL

- Non-silicone paintable
- No ozone depleting chemicals
- FDA Approved lubricant
- Use where parts must be painted, hot-stamped or metalized
- Maximum temp: 600°F, Wt. 12 oz.



Universal meets certain requirements for molding medical products - contact for details. It is food-approved, but does not contain lecithins. Approved as a direct food additive, you can use it on all thermoplastics including sensitive plastics. Permits ultrasonic welding of plastic parts.

DRY FILM LUBE (FLUOROCARBON)

- Formulation for deep draw molds
- More durable bonded formulation
- No ozone depleting chemicals
- Also good on phenolic & urethane
- Maximum temperature: 500°F
- Net Wt. 12 oz.



Dry Film Lube (DFL®) will not create “hydraulic effect” on deep drafted molds or pick up dust or dirt and remains inert when exposed to corrosive reagents. It’s a fast-drying lubricant for injection molding where clarity and deep draw are important, especially brittle resins.

ELECTRONIC MOLD RELEASE

- Non-silicone paintable
- For plastic electronic parts
- Maximum temperature: 550°F
- Net Wt. 12 oz.



Electronic is formulated specifically not to interfere with electronic properties of molded electronic parts.

HI-TEMP 1800

- Non-silicone paintable
- For temperatures up to 1800°F
- Contains Boron Nitride
- No ozone depleting chemicals
- Maximum temperature: 1800°F
- Net Wt. 10 oz.



Ideal for the latest high-temperature resins, it is an excellent release for die-casting of low melting point metals such as lead, zinc and aluminum.

KNOCK OUT

- Paintable, non-silicone
- Approved for indirect food contact
- GRAS Rated, 21 CFR 1783570
- Maximum temperature: 550°F
- Net Wet. 11.5 oz. (327 Grams)



Knock Out mold release gets “sticky parts” cleanly out of the mold. Approved for indirect food contact, Knock Out’s formulation helps troublesome parts pop out cleanly, immediately improving production. It is the release that works where other releases have failed. Knock Out mold release imparts a light, dry coating that is amazingly effective, working for several cycles without re-application.

MOLD SAVER RELEASE AGENT

Non-silicone paintable

- Neutralizes corrosive vapors
- No ozone depleting chemicals
- Prevents deposit build-up
- Maximum temperature: 550°F
- Net Wt. 10 oz.



Mold Saver neutralizes corrosive vapors emitted by flame-retardant plastics and PVC during molding. It is imperative that Mold Saver be sprayed into the cavity regularly while molding to prevent mold deposits from forming and attacking the mold.

PURE EZE

- Non-silicone paintable, excellent all-purpose release
- Neutral white-oil-based release with no lecithins
- Won’t turn color or turn rancid, Food-approved oil
- Maximum temperature: 600°F, Net Wt. 11.5 oz.



Use with all thermoplastic resins, polyolefins, polycarbonates and rubber. It is a white oil-based release, ideal for medical/food applications.

WATER SOLUBLE

- Non-silicone paintable
- No ozone depleting chemicals
- Permits ultrasonic welding of parts
- No removal necessary, simply wash parts in H2O
- Does not contain water
- Maximum temperature: 450°F, Net Wt. 12 oz.



Permits complete cleaning of molded parts. Does not need to be removed prior to painting, hot-stamping or plating. Antistatic properties reduce dirt pickup.

ZINC STEARATE

- Non-silicone paintable
- Lubricant powder
- For polycarbonates, polypropylenes, polysulfones and rubber
- Maximum temperature: 600°F
- Net Wt. 11.5 oz.



A dry, light, water repellent powder, Zinc Stearate is economical to use and gives better finishes. Effective formulation results in fewer rejects and lower production costs. Compatible with oil-based paints.

Water Based Releases

E/S ENVIRONMENTALLY SAFE SILICONE

- CFC-free & chlorine-free
- No ozone depleting chemicals
- FDA and USDA Approved lubricant
- Biodegradable, Colorless and non-staining
- Non-flammable when used as directed
- Maximum temperature: 600°F, Net Wt. 12 oz.



The E/S Formula is a breakthrough in mold release technology and is the most effective release known for most mold and plastic applications. Effective in many applications, especially on molds 212°F and above. Excellent “wet” silicone lubricant for many applications.

ENVIRONMENTALLY SAFE PAINTABLE LECITHIN

- Non-silicone paintable
- CFC-free & chlorine-free
- No ozone depleting chemicals
- Non-flammable when used as directed
- FDA and USDA Approved lubricant, Biodegradable
- Colorless, odorless and non-staining
- Maximum temperature: 600°F, Net Wt. 12 oz.



E/S Paintable Lecithin has the same breakthrough technology as the other E/S Products. Specially formulated for most injection and compression molding and some flexible and semi-urethane foams, it is non-silicone, fully paintable and non-crazing. It will not interfere with part-bonding, heat-sealing, laminating, ultra-sonic welding, painting and silk screening. Ideal for metalizing and hot stamping. It will not build up on mold surfaces or drift. Use safely on all thermoplastics, including polyethylenes, polycarbonates, styrenes, acrylics and other sensitive plastics.

Internal Releases

ZINC STEARATE INTER LUBE INTERNAL MOLD RELEASE

- Lubricant powder
- Suggested mixing ratio is 1-2% when mixed with resin
- Net Wt. 25 lbs.



A dry, white, water repellent powder, Slide® Inter Lube internal mold release is economical to use and results in better finishes.

Thermoset Mold Releases

URETHANE MOLD RELEASE

- For rigid, semi-rigid and flexible urethane foams
- No ozone depleting chemicals
- Made especially for polyurethanes
- Non-paintable silicone and Non-marking
- Non-toxic & no chlorinated solvents
- Maximum temperature: 500°F, Net Wt. 11.5 oz.



An extremely effective mold release for all polyurethanes, Urethane mold release imparts a light, dry coating on the mold, eliminating build-up. Yet, it is so effective that it continues to work for several cycles between applications.

DURA KOTE

- Semi-permanent for thermosets
- Use for urethane & epoxy molding
- Completely dry and non-flammable
- Will not discolor, Extremely thin film
- Paintable when baked on
- Excellent rotational mold release
- Maximum temperature: 600°F, Net Wt. 12 oz.



Dura Kote is for thermoplastics and thermosetting resins. Dura Kote is a special air-drying release resin that will not transfer into the molded part. Dura Kote provides a dry, dust-free film on all hard-surfaced molds.

EPOXEASE® MOLD RELEASE

- Non-silicone for thermosets
- No ozone depleting chemicals
- Synthetic wax-based product
- For injection molding, encapsulating, potting
- For epoxy, polyester and phenolic molding
- Maximum temperature: 450°F, Net Wt. 16 oz.



Epoxease is formulated to prevent the sticking commonly caused by using all-purpose agents on epoxies, maximizing your productivity.

THERMOSET MOLD RELEASE

- Made with synthetic carnauba wax
- No ozone depleting chemicals, silicones or oils
- Maximum temperature 550°F, Net Wt. 16 oz.



Thermoset Release is made with synthetic carnauba wax, the most effective formulation for molded thermoset plastics, rubber and similar materials. It stops parts from sticking, maximizing your productivity. It is ideal for injection, compression and transfer molding.