

MS-122AVL High Performance Mold Release Agent

Description:

MS-122AVL is a Low Global Warming (LGW) formulation that combines high efficiency low-molecular weight polytetrafluoroethylene (PTFE) and proprietary surface activation chemistry. This formulation yields superior adhesion of PTFE to metallic, glass, and non-plastic surfaces. The result is unmatched durability, extended reapplication intervals and virtually no transfer.

MS-122AVL advantages include:

- Unparalleled release agent durability
- Ideal for difficult mold geometries
- Improves quality and consistency of molded parts
- Nonflammable; Non-ozone depleting formulation
- Non-migrating; Non-staining
- RoHS2 & RoHS3 Compliant

Release Agent Applications:

Our specialized chemistry can be used to release the following materials:

- Plastics
- Resins
- Acrylics
- Urethanes
- Nylons
- Rubbers
- Phenolics
- Polycarbonates
- Polystyrene
- Elastomers

Recommended Application Procedure:

1. Clean mold surface thoroughly. Mechanical cleaning such as bead media blasting or steel wool, followed by chemical cleaning, provides the best surface for application of 122AVL. Removal of all previous mold release agent is critical.
2. Shake can vigorously for one minute. Hold can approximately 6-8 inches away from a non-heated mold surface and apply a light coat of release agent. NOTE: Material will apply wet and transparent but will dry to a fine-white coat.
3. Allow solvent to dry completely before molding any parts. Although it is not necessary to heat MS-122AVL, performance can be enhanced if a heating cycle is completed prior to operation. This will ensure the most effective coating for durability and cycle life.

Reapplication:

1. When release becomes hesitant, reapply one coat of MS-122AVL in the same manner as described previously.

Fused Coatings Procedure (Optional)

1. After applying the release agent, heat the surface to 581°F - 600°F.
2. Coating transition from white to translucent will occur. Maintain the temperature of the coated surface for 5 to 10 minutes.
3. If a white residue is left on the metal surface, buff with a soft cloth. When the coating is properly fused, it is extremely durable.

Physical Properties:

Primary Polymer	Fluoropolymer
Appearance	Light Yellow particle suspension
Odor	Alcohol
VOC Content	84 g/l

MS-122 Product Line:

Miller-Stephenson offers a selection of specialized formulations which provide high performance solutions for your molding process. All variants of the MS-122 Series will deliver higher productivity, lower rejection rates, and higher quality products.

Safety data sheet (SDS) is available upon request.

LIMITATION OF LIABILITY AND REMEDIES: Manufacturer warrants that, at the time of shipment by the Manufacturer, this product is free from defect in material and manufacture. If the product is proved to be defective, the exclusive remedy, at Manufacturer's option, shall be refund of the purchase price or replacement of the defective product, provided written notice of the defect is given no later than one year after the date of shipment by the Manufacturer. Manufacturer shall not otherwise be liable for loss or damages whether direct, indirect, incidental or consequential, regardless of the legal theory asserted, including negligence and strict liability. **Manufacturer expressly disclaims all implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose.** There are no warranties which extend beyond the description on the face hereof.

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