



Product Information

www.miller-stephenson.com

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

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
 Specific Gravity:.....1.2 g/mL @ 25°C
 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. Please use the product selection guide below to help direct you to the appropriate product.

MS-122 Series	Dry Time	Durability	Releases per Application
AD	●●●	●	●
XD	●●●●●	●●●	●●●
AV	●	●●●●●	●●●●●
SE	●●●●●	●●●●●	●●●●●

Safety data sheet (SDS) is available upon request. 1608-10M

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