

technical data



PLASTICS RESEARCH LABORATORIES, INC.
MOLD RELEASES & INTERNAL LUBRICANTS

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MOLD WIZ

INT-38NFR

Powder or Pellet (100% Active)

General: A process aid with anti-static properties which is incorporated directly into the resin. Improves release, lubricity, resin flow/fill, and improves dispersion of other resin additives (reinforcements, fillers, and pigments). Also shortens cycle times by reducing temperatures and pressures of molding machines, and reduces or eliminates weld/knit lines. Eliminates the need for an external mold release agent. An effective addition of process aid additive will not have any adverse effect on physical properties or secondary operations such as decorating, printing, bonding, or plating.

Use: Processing all Polyethylene, Polypropylene including TPO, TPE, TPV & TPU. Nylon, Styrenic resins, Engineering Thermoplastics, PET, PBT – Copolymers

Each component in this formulation has been certified by our raw material suppliers as having direct USFDA approval for food contact.

Composition: Proprietary synergistic blend of organic fatty acids, esters and amides.

TYPICAL PROPERTIES:

EFFECTIVE INGREDIENTS:	100%
SOLIDS:	100%
COLOR:	Off White
DROPPING POINT:	ca. 265°F / 129°C
SHELF LIFE:	Minimum of one year
AVAILABILITY:	Powder or Pellet form

Application Instructions:

General: For best results, laboratory tests or pre-production trials should determine the optimum addition level. MoldWiz® process aid additives are effective within a range of 1 to 10 parts per 1000 resin excluding reinforcements, pigments and fillers. A high amount of filler may require a higher percentage of process aid additive than the indicated maximum. Always start an evaluation at 5 parts per 1000 (0.5%). The additive may increase the MFI. If screw slippage occurs, reduce the level of additive or reduce the process temperature to raise the resin viscosity.

Mixing: Dry blend the process aid additive by tumbling or use an additive dispenser to meter directly into the resin stream. Process aid additives may be compounded into the resin to make a master-batch. We generally recommend not adding the additive prior to drying the resin, or drying at a temperature well below the drop point of 265°F / 129°C.

All information given by us about our products is based upon our tests and experience. It is intended for use by persons having technical skill at their own discretion and risk, and we assume no liability in connection with their use.

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