

technical data



PLASTICS RESEARCH LABORATORIES, INC.
MOLD RELEASES & INTERNAL LUBRICANTS

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MOLD WIZ INT-436PAD

General: A process aid additive which is incorporated directly into resin, and into, or on to filler, reinforcements or pigment. Improves flow and dispersion of other resin additives (reinforcements, fillers, and pigments), shortens cycle times, reduces 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: As a surface treatment, flow enhancer / dispersant for fillers and color. Improves wetting and loading and reduces torque in mixing. Also for processing thermoplastic resins, especially those molded at high temperatures (above 500°F/260°C)

Each component in this formulation has been certified by USDA for plastics or films having food contact.

U.S.F.D.A. SANCTIONED 21 CFR 175.300

Composition: Proprietary complex mixture of saturated and unsaturated fatty esters with modified organic acid derivatives.

TYPICAL PROPERTIES:

EFFECTIVE INGREDIENTS:	100%
SOLIDS:	100%
COLOR:	White
BULK DENSITY:	6.0 lb/gal @ 25°C
DROPPING POINT:	145°F / 63°C
FLASH POINT:	Non Flammable
AVAILABILITY:	Powder 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 process aid additive may increase the MFI. Reduce the level of process aid additive or the process temperature to raise the resin viscosity and to eliminate screw slippage.

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.

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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