

technical data



PLASTICS RESEARCH LABORATORIES, INC.
MOLD RELEASES & INTERNAL LUBRICANTS

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MOLD WIZ

INT-33LCA

Powder or Pellet (100% Active)

General: A process aid with anti-static properties which is incorporated directly into the resin. Improves resin flow/fill; improves dispersion of other resin additives (reinforcements, fillers, and pigments); shortens cycle times; reduces temperatures and pressures of molding machines; reduces or eliminates weld/knit lines, and provides release. 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, labeling, in mold graphics, or plating.

Use: Processing all Polyethylene, Polypropylene including TPO, TPE, TPV & TPU.

Also for other resins where improved lubricity of the molded part, or reduced coefficient of friction is required. Will not interfere with bonding, painting, printing or plating.

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:	170-210°F / 76-99°C
SHELF LIFE:	Minimum of one year
AVAILABILITY:	Powder or Pellet form

Application Instructions:

For best results, laboratory tests or pre-production trials should determine the optimum addition level.

General Use: MoldWiz® process aid additives are effective within a range of 1 (0.1%) to 10 (1.0%) 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. Reduce the level of additive or reduce the process temperature to raise the resin viscosity and to eliminate screw slippage.

Rotational Molding: MoldWiz® process aid additives are effective within a range of 5 (0.05%) to 10 (0.1%) parts per 10,000 resin. Please note that this is a much lower loading level than for Injection Molding.

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. For rotational molding, the additive can also be pulverized with the polymer.

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.

(08/05/2015)