

## technical data



PLASTICS RESEARCH LABORATORIES, INC.  
MOLD RELEASES & INTERNAL LUBRICANTS

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# MOLD WIZ

## INT-39PSR

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, 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.

Specially developed to improve mar/ scratch resistance and lubricity of the molded part, or reduced coefficient of friction is required.

Will not interfere with bonding, painting, printing or plating.

**Composition:** Proprietary synergistic blend of organic fatty acid esters, amides and glycerides.

### TYPICAL PROPERTIES:

<b>EFFECTIVE INGREDIENTS:</b>	<b>100%</b>
<b>SOLIDS:</b>	<b>100%</b>
<b>COLOR:</b>	<b>White</b>
<b>BULK DENSITY:</b>	<b>6.0 lb/gal</b>
<b>DROPPING POINT:</b>	<b>164.3°F / 73.5°C</b>
<b>SHELF LIFE:</b>	<b>Minimum of one year</b>
<b>AVAILABILITY:</b>	<b>Powder or Pellet form</b>

### Application Instructions:

**General:** For best results, laboratory tests or pre-production trials should determine the optimum addition level. MoldWiz® process aid additive 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 additives 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 reduce 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 additive may be compounded into the resin to make a masterbatch.

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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