



PLASTICS RESEARCH LABORATORIES, INC.  
MOLD RELEASES & PROCESS ADDITIVES

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Technical Data Sheet

**MoldWiz®**

**INT-33FRS**  
**Process Aid Additive**

### Product Description

A process aid additive that 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 this process aid additive will not have any adverse effect on physical properties or secondary operations such as decorating, printing, bonding, or plating.

### Composition

Proprietary synergistic blend of organic fatty acids, esters and glycerides.

### Handling

Keep container closed when not in use.

### Uses

Nylon, Engineering Thermoplastics, PET, PBT – Copolymers

### Typical Properties

Effective Ingredients:	100%
Solids:	100%
Color:	Off-white
Dropping Point:	152.78°F / 67.1°C
Flash Point:	Not Available
Shelf life	Minimum of one year
Availability:	Powder or Pellet form

### Instructions for Use

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 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 additives may be compounded into the resin to make a masterbatch.

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