

technical data

AXEL

PLASTICS RESEARCH LABORATORIES, INC.
MOLD RELEASES & INTERNAL LUBRICANTS

Mailing Address: Box 77 0855, Woodside, NY 11377
Shipping Address: 58-20 Broadway, Woodside, NY 11377
Tel: 718-672-8300 • Fax: 718-565-7447
E-mail: info@axelplastics.com

MOLD WIZ INT-40DHT powder

General: A process aid additive which is incorporated directly into the resin. Improves resin flow, 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: A flow enhancer/dispersant for TiO₂ and other inorganic fillers and pigments. 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 our raw material suppliers as having direct USFDA approval for food contact.

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

TYPICAL PROPERTIES:

EFFECTIVE INGREDIENTS:	100%
SOLIDS:	100%
COLOR:	White
BULK DENSITY;	5.3 lb/gal
DROPPING POINT:	140 – 158°F / 60 – 70°C
FLASH POINT:	Non-Flammable (C.O.C.)
SHELF LIFE:	Minimum of one year

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 additives 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 the process temperature to raise the resin viscosity and to eliminate screw slippage.

Mixing: Dry blend the additive by tumbling or use dispenser to meter directly into the resin stream. Additives 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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