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Mold Base Terminology - A

ABS (Acrylonitrile -Butadiene-Styrene)

A Terpolymer produced from Acrylonitrile and styrene liquids and butadiene gas that are polymerize together in a variety of Ratios to produce the family of ABS resins.

Accelerated Ejection

Rack and pinion linkages used to extend the reach of the ejector pins, so that the ejector pins move before the main ejector plate comes all the way forward.

Acetyl

Rigid thermoplastic with properties similar to zinc, aluminum, and other metals. The molecular structure of the polymer is of a linear Acetyl, consisting of unbranched polyoxymethylene chains

Acrylic

A synthetic resin from acrylic acid or a derivative thereof. Clarity is the property achieved at processing temperatures.

Amorphous Phase

Devoid of crystalline (non-crystalline). Most plastics are amorphous at processing temperatures.

Angle Pin

The fixed pin that engages a mold slide to move it when the mold opens and closes.

Annealing

Heating, then gradually cooling a molded part to relax stress with no shape distortion.

Autoclave

Closed vessel for conducting a chemical reaction or other operation under pressure and heat.

Average Molecular Weight

The molecular weight of a polymer determined by viscosity of the polymer in a solution at a specific temperature. This gives an average molecular weight of the molecular chains in the polymer independent of between weight average and number average molecular weight.

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