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Mold Base Terminology - I

Injection Molding

Injection molding is a repetitive process in which plastic is melted or plasticated and injected into a mold containing a cavity in the shape of the desired article. With thermoplastics the mold is kept at a temperature below the solidifying point of the plastic, causing the injected polymer to "freeze" thus forming the article. After cooling, the mold opens and the part is ejected.

Injection Pressure

Pressure applied to the injection ram to force the plastic from the barrel and into the mold (measured in psi).

Insert Molding

Process by which components, such as terminals, pins, studs, and fasteners may be molded into a part.

Isotropic

The ability to react the same regardless of direction of measurement. Isotropic materials will react consistently even if stress is applied in different directions. Stress-strength ratio is uniform throughout the material.

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