# SCIENTIFIC MOLDING

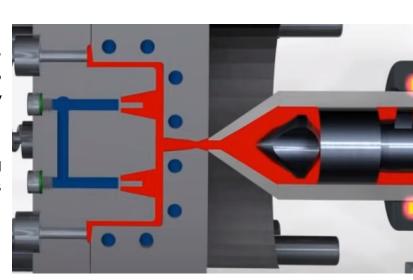
Scientific Injection Molding is a step by step procedure used to build a robust and repeatable process to minimize variations within molded parts.

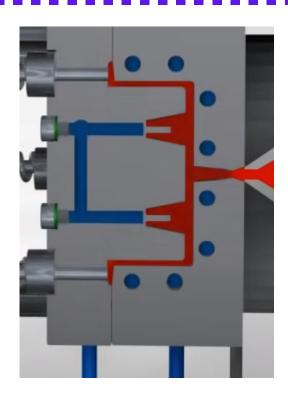
STEP 1

# INJECTION/PACK AND HOLD

**Injection** - Melted polymer is injected in to the mold cavity filling it 95-99% full. This step establishes the foundation of consistency between shots.

Pack and Hold - As the material is cooling and beginning to shrink, more material is added to the mold to ensure a complete fill.





### **STEP**

2

#### COOLING

A continuation of the cooling and shrinkage of the part in preparation for mold opening and ejection.

STEP

3

# **MOLD OPEN**

The part is cooling and releasing from the sides of the mold at the parting lines.



### **STEP**

4

## **EJECTION**

The cooled part is pushed away from the mold via ejection pins.



Need more info? Contact us today www.TechNH.com Call (603) 305.7585