Polymer Cased Ammunition

Lessons Learned in the Evolution of Design

Material Selection
Based on a Complex Design of Experiment
Applying all the Rules of Injection Molding

- Mold it to Fit The Specification
- Build it and Bust it!
  3rd Party Product Design Verification
- Establish Repeatability
Polymer Cased Ammunition

Polymer Cased Ammunition Production is not as Capital Intensive as Brass Ammunition

Production Process

- Injection Mold
  - Base of Case
- Injection Mold
  - Neck/Shoulder of Case
- Position Parts
- Welding Stage
  - Joins Neck/Shoulder of Case Base of the Case
- LAP Ammunition
  - Prime, Stake & Lacquer
  - Varnish
  - Load
    - Packaging
    - Stock for Shipment

Before reaching the Prime & Stake Stage, Brass takes Significantly More Steps Dependent on the Cartridge
Polymer Cased Ammunition

The "Lessons Learned" over many years of development and the application of key Materials technology has focused this effort. The analysis process (both in house and from partner companies), the evolution of materials technology, and the establishment of process controls has resulted in the achievement of desired performance. At this time a Confirmation of the Design, the Process, and Operational Repeatability is being established.

Polymer Cased Ammunition has now evolved to a point of readiness for qualification and transition to production.