



Materials Design for Firearms and Defense Applications

- Butt Stocks
- Stripped Lowers
- Grips
- Trigger Guards
- Magazines
- Foregrips
- Flip Up Sights
- Pistol Frames

Techmer PM is a leading materials design company and works in deep partnership with plastics processors, OEMs, and designers in the firearms and defense market to solve some of their most difficult business, manufacturing, and sustainability challenges.

Techmer PM operates six manufacturing sites across the United States and the company's global reach is supported by a new plant in Mexico, sales offices in Germany and Brazil, and with partner companies in Asia and Europe.



Intertek



Intertek



Firearms and Defense Solutions

Techmer PM's materials design solutions address key challenges facing the firearms and defense industry such as reducing part weight and improving corrosion resistance while delivering top-notch performance. Our expertise in every aspect of the polymeric materials used in firearms and defense is supported by a dedicated research and development center that can design custom products to suit the most demanding applications.

Our innovative solutions utilizing the latest technology in reinforcements such as glass fibers, carbon fibers, and polymer technology will help in any demanding application. In addition, we have utilized our lubricant technologies to help develop firearm internals that can withstand the higher demands of the field. Our custom designed solutions can help take your application to the next level of performance.

Structural Integrity and Performance

- High Durability
- Improved Dimensional Stability
- High Strength and Impact (High or Low Temp)
- Metal to Plastic Conversion: Light weighting, Chemical/Corrosion Resistance, Thermal Insulation, Lower Cost
- Reinforcement Materials: Glass Fiber, Long Glass Fiber, Carbon Fiber



Color and Appearance

- Custom Colorants
- Improved Surface Appearance
- Special Effects: Desert Tan, Matte Olive, Camouflage, Wood Look
- Soft touch
- Design Freedom



Key Materials

- 3-D Printing BAMB Materials
- PA (Polyamide 6, 6/6, 12)
- PEEK (Polyetheretherketone)
- PPS (Polyphenylene Sulfide)
- PPA (Polyphthalamide)



Enhanced Properties

- High Heat Resistance
- Reduced Recoil
- Improved Serviceability

Process Improvement

- Reduced Cycle Time
- Reduced in-Mold Stress



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