

HIFILL®

 **TECHMER** *PM*
POLYMER MODIFIERS



Cost-Effective Material Solutions for Use in Structural Components and Metal Replacement Opportunities

Characteristics

Filled and reinforced thermoplastic compounds designed to deliver improvements in strength, modulus, heat resistance, and creep resistance. Additional performance effects that can be achieved include metal detectability, X-ray opacity, increased density, increased isotropic dimensional control, and reduced CTE.

Typical Fillers

- Glass fiber
- Carbon fiber
- Glass bead
- Various mineral systems

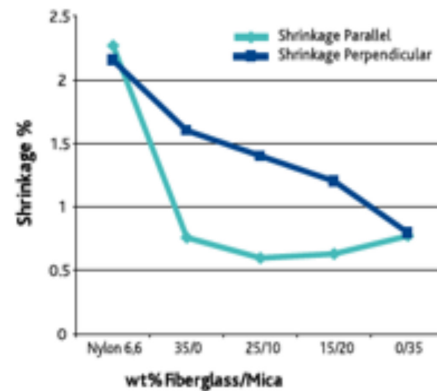
Applications

- Automotive: Under hood, powertrain, interior
- Oil & Gas: Down hole exploration and extraction
- Material Handling: Conveyor systems
- Pool & Spa: Pump housings, filter components

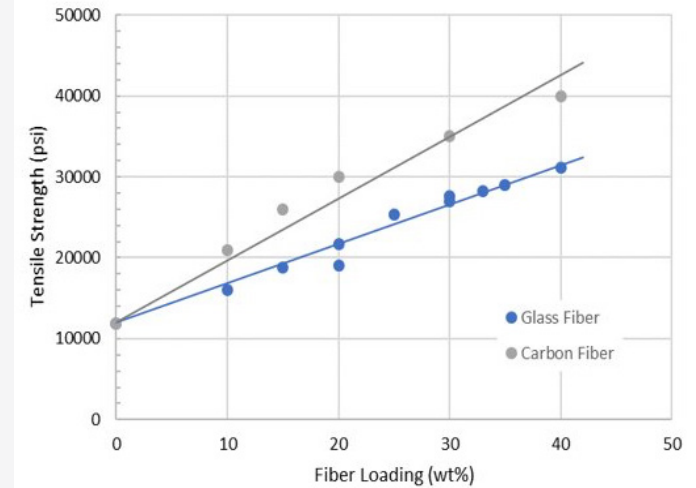
Benefits

- Weight reduction
- Parts consolidation
- Design freedom
- Potential for molded in color

Shrinkage Differential of Glass Fiber and Mineral in HIFILL PA6/6



Tensile Strength from Glass and Carbon Fiber in HIFILL PA6/6



Tensile Strength Comparison w/ Glass Fiber in HIFILL PA6/6, PC and PP

