

» PRODUCT BULLETIN

Edgetek™ PKE Glass-Filled Formulations

The Edgetek PKE Glass-Filled (GF) series consists of specialty engineered, glass-reinforced polyketone (PK) thermoplastics. Available with 10–40% short glass fiber fillers, these formulations provide superior chemical resistance, low moisture uptake, excellent dimensional stability, and high impact and wear resistance. These properties offer manufacturers a high-performing, cost-competitive, and more eco-conscious alternative to nylons.

Helping to improve sustainability over the end-product lifecycle, these formulations offer a reduced carbon footprint as a result of the PK base resin. The production of PK emits up to 61 percent less carbon dioxide (CO₂) than nylon.

Available in natural and black grades, this Edgetek PKE GF series can be colored at the press. Some formulations are also available pre-colored. When processing, these have similar shrink to nylons, set up quickly, and have short cycle times. The formulations can also be customized to meet specific application needs, such as improved UV stability.

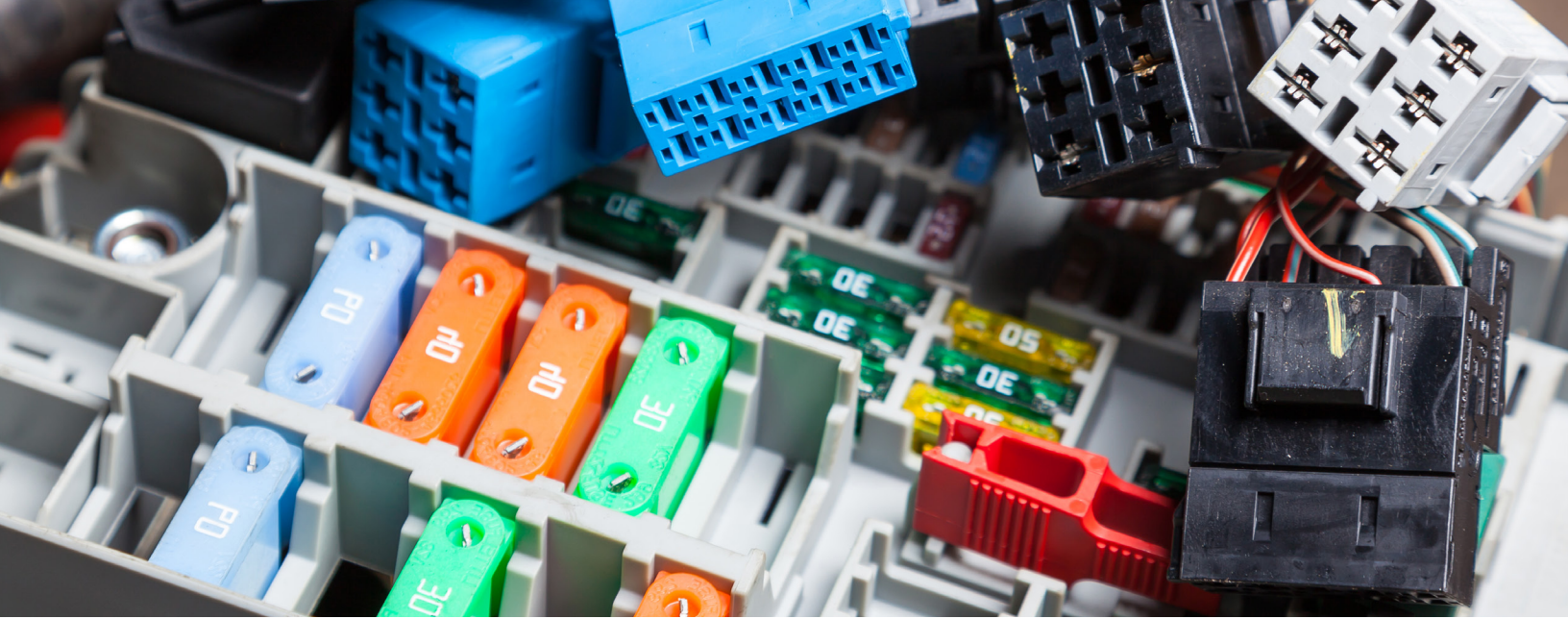
KEY CHARACTERISTICS

- Excellent chemical resistance
- Low moisture uptake
- Comparable dimensional stability to nylon
- Reinforced with 10–40% short glass fiber
- High impact and wear resistance
- Cost competitive
- Eco-conscious alternative to PA66 and PA6
- Non-halogen, flame retardant performance

MARKETS & APPLICATIONS

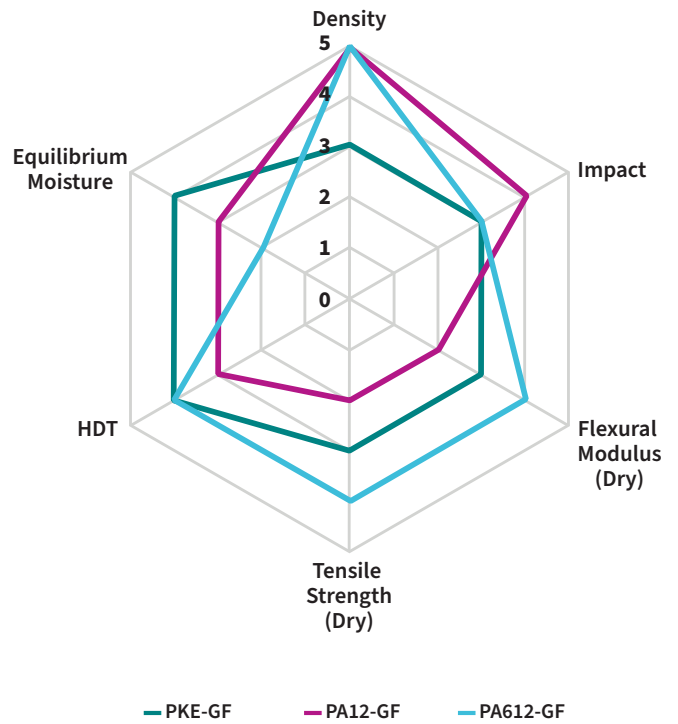
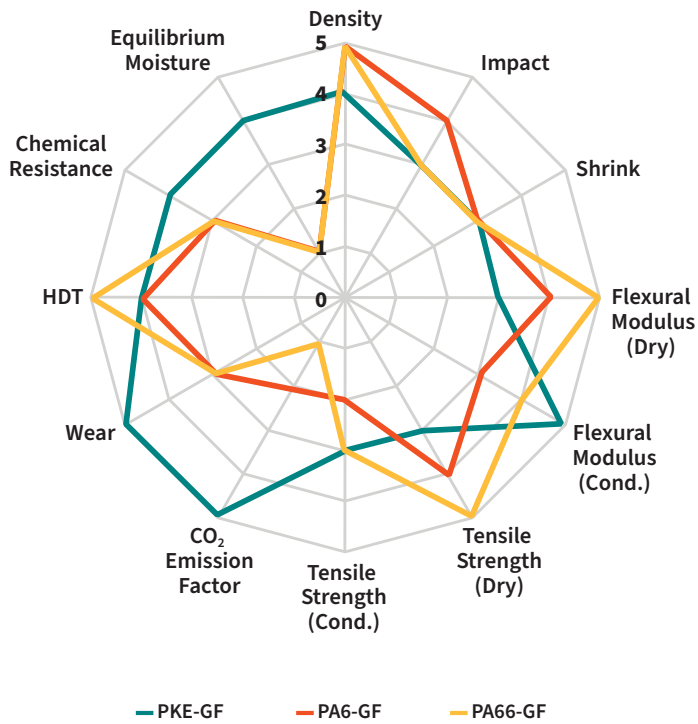
These glass-reinforced materials meet the challenges found in chemical, fuel contact, and high moisture environments.

- **Industrial** – pipes, tubing, fluid management
- **Electrical/Electronics** – connectors, battery components
- **Transportation** – under-the-hood fuel/chemical components



PROPERTY COMPARISON — EDGETEK™ PKE FORMULATIONS VS NYLON

1: Poor 3: Good 5: Excellent



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