

## Long Glass Fiber Thermoplastics

Long Glass Fiber polymers (LGFT's) are considered advanced materials which can compete with metals at a fraction of the weight. Optimized for strength, stiffness and toughness, the unique characteristics of Long Glass Fiber include a glass fiber network or skeleton encased in the finished molded components. These polymers have excellent dimensional stability, but what they are best known for is increased thermal-mechanical properties. These polymers yield a highly structural part due to the web like structure produced with the glass fibers. As a visual, see the picture below from Solvay Xencor line of Long Glass Fiber Thermoplastics. The photo to the left shows the molded part. The photo to the right is the same part with the polymer burnt off leaving the glass structure for visual purposes.



**Molded part**



**Fiber skeleton (as retrieved after burning off the resin)**

If you are looking for highly structural components with strength and dimensional stability, consider long glass fiber. Available in Nylon (PA66), Polypropylene (PPR), Polyphenylene Sulfide (PPS) and Polyphthalamide (PPA)

### **Picking a Supply Partner:**

Due to the unique structure of the Long Glass Fiber pellet, tool design and part design require a different approach than traditional injection molding. If you are considering LGF for your next project, [experience counts](#).

Contact us today for a brief consult at: [sales@relucentplastics.com](mailto:sales@relucentplastics.com)