



# LIGHT AND TOUGH (LT) SERIES: GLASS FIBER + GLASS BUBBLE HYBRIDS

STRUCTURAL PRODUCTS

## FEATURES

- Hollow glass sphere + glass fiber reinforced compounds
- Available in PP, PE, Nylon, PBT, PPS, PPA, and PEEK
- Available in Americas, Europe, and Asia

## BENEFITS

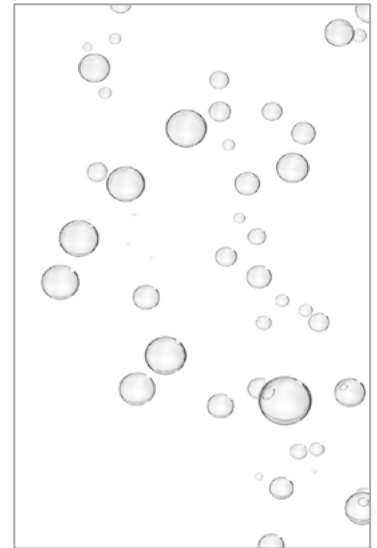
- Similar mechanical performance to standard GF Reinforced Compounds, but at lower density
- Weight savings regardless of the part's wall thickness
- Drop-in solution for existing tools built for standard GF Reinforced Compounds

RTP Company offers unique Low Density LT Series Compounds that provide the fastest, easiest, and most cost effective drop-in solution to reduce the weight of existing Glass Fiber (GF) Reinforced Compound parts while maintaining similar performance and shrinkage values. These compounds can be customized with glass fiber reinforcement ranging from 20 - 50% and are available in a wide variety of polymers (see Figure 1).

Our Low Density LT Series Compounds are ideal for applications that could benefit from lighter weight as a way to minimize energy consumption or human effort. Items such as handheld tools, sporting goods, and automotive parts are all examples of applications that can benefit by being lighter, but just as strong and durable as their heavier counterparts.

Furthermore, the reduced density benefits of the LT Compounds are not dependent on wall thickness and do not affect surface finish. These benefits make Low Density LT Series Compounds the ideal drop-in alternative for standard GF Reinforced Compounds, with no tooling modifications needed.

To learn more about Low Density LT Series Compounds, contact your local RTP Company Representative or visit [www.rtpcompany.com](http://www.rtpcompany.com).

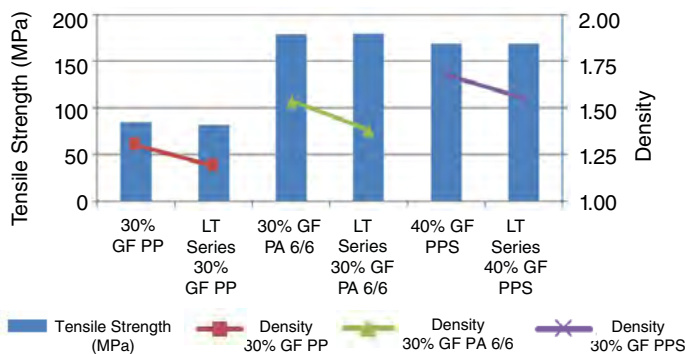


**FIGURE 1: PROPERTY COMPARISON**

Property	30% GF PP	LT Series 30% GF PP	30% GF PA 6/6	LT Series 30% GF PA 6/6	40% GF PPS	LT Series 40% GF PPS
Tensile Strength	85 MPa 12,500 psi	82 MPa 11,890 psi	179 MPa 26,000 psi	180 MPa 26,100 psi	169 MPa 24,500 psi	169 MPa 24,500 psi
Flex Modulus	6,700 MPa 0.97 x 10 <sup>6</sup> psi	6,500 MPa 0.95 x 10 <sup>6</sup> psi	9,300 MPa 1.30 x 10 <sup>6</sup> psi	10,000 MPa 1.45 x 10 <sup>6</sup> psi	15,200 MPa 2.20 x 10 <sup>6</sup> psi	15,900 MPa 2.30 x 10 <sup>6</sup> psi
Density	1.12	1.04	1.36	1.23	1.68	1.55

**FIGURE 2: DENSITY VS. STRENGTH COMPARISON**

**TENSILE STRENGTH WITH DENSITY OVERLAY**



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