ONFORCE™ LFT
Long-Fiber Reinforced Thermoplastic Composites

PRODUCT DESCRIPTION
OnForce™ long fiber thermoplastic composites are formulated to provide superior physical properties for structural applications. Long fiber materials (pellet and fiber length are in excess of 1/2"), are frequently used to replace metal for applications in which improved impact strength, elastic modulus, and material strength are required.

VALUE SOLUTION
Improved strength and performance without added weight
Reinforced thermoplastic composites have long been used as a metal replacement in applications where high strength-to-weight ratio is key. Traditionally, performance improvements have compromised lightweight design. However, long-fiber technology used in such applications provides creep and fatigue resistance, and improved dimensional stability with an exceptional surface finish.

KEY CHARACTERISTICS
- Extremely high stiffness
- Creep and fatigue resistance
- Very good chemical resistance
- Retained performance across a wide temperature range
- Available in a range of base polymer/reinforcement combinations

TARGET MARKET AND APPLICATIONS
The strength and stiffness of OnForce LFT composites are ideal qualities for structural composites are ideal qualities for structural applications in the transportation, industrial, and outdoor high performance markets. Typical metal replacement applications range from automotive under-the-hood and body components, to structural components and brackets in building and construction.
THE POLYONE DIFFERENCE

Technology

- Improve Design Freedom—Select base materials best suited for your desired manufacturing processes
- Increase Speed to Market—Choose from a range of polymer/reinforcement combinations including PP, PA 6,6, and TPU resins combined with glass and/or carbon fibers
- Customize Your Solution—Add stabilization and/or additive packages to your product, and choose from a range of custom colors

Service

- Design for Effect—Utilize our design and material experience to build unique products
- Discover Possibilities—Use our global Innovation Centers for material, design, and processing inspiration
- Reduce Risk—Protect manufactured parts with PolyOne supporting processing and troubleshooting data

CONTACT INFORMATION

To learn more about OnForce™ LFT long fiber solutions, contact PolyOne at +1 866-PolyOne (1 866-765-9663)