

Xycomp® DLF™

Xycomp® DLF™ is a lightweight thermoplastic composite developed to replace complex-shape metal medical tools including nail guides, fixators, retractors and others. With outstanding fatigue, vibration, and impact resistance, it provides up to 60 percent weight savings to help with tool ergonomics and user fatigue while providing exceptional performance.

Xycomp® DLF™ is produced from aerospace-grade, carbon-fiber-reinforced, unidirectional prepreg tape which is chopped into flakes, resulting in high fiber content (70% by weight), longer fibers (0.5 in./13 mm or greater), and a high degree of material control. Flakes are matched-die compression molded in a proprietary process called ProFusion, enabling the production of 3D shapes with variable wall thickness and molded-in features such as fasteners, inserts, and ribs. The benefits of this molding technique include the consolidation of complex assemblies into fewer parts, and the optimization of raw material required per component.



Xycomp® DLF™ chopped flakes

Greene Tweed

1684 South Broad Street, Lansdale, PA 19446 USA | Phone: (+1) (215) 256-9521

gtweed.com

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.

© 2025, Greene Tweed all rights reserved. All trademarks are property of their respective owners. 08/25-GT BR-US-XYC-001