



Xycomp® DLF™

**Connecting
A Better World.**

At Topcast, we pride ourselves as one-stop-shop for spare parts, components, raw materials and consumables sourcing service provider with our extensive network of business partners, global sourcing team and decades of experience servicing a vast and diverse customer base. We are a global connector, ultimately, we connect the world.

Exclusive Distributor of Aerospace OEM for Asia Pacific & South America Region

THE BENEFITS OF XYCOMP® DISCONTINUOUS LONG FIBER (DLF™) COMPOSITES

Lightweight, high-performance alternative to metal parts, components, and assemblies

FEATURES AND BENEFITS

- 35-50% weight reduction compared to metal components, for reduced fuel burn and emissions
- ProFusion® near-net compression molding enables consolidation of complex assemblies into fewer parts, with high quality and repeatability
- Exceptional fatigue, vibration and impact resistance delivers performance equal to or better than metal
- Significant improvements in impact & elevated temp performance vs. injection-molded materials
- Excellent retention of properties after thermal ageing
- Chemical resistant to all common aerospace fluids
- Components are manufactured with nearly zero waste and are recyclable at the end of their service life

APPLICATIONS

- Nacelle and engine components
- Interiors
- Aerostructures

STRENGTH & PERFORMANCE

- Aerospace-grade carbon fiber pre-preg tape (AS4/PEEK, PEKK, PEI)
- Matched-die compression molded
- Superior strength-to-weight ratio
- Excellent impact performance
- Thermal stability, chemical and environmental resistance
- Galvanic corrosion mitigation

WEIGHT SAVINGS

- Significant reduction in density vs. metals
- Typical application weight savings of 35-50%

TESTED & APPROVED

- OEM and Tier 1 supplier approvals (incl. GE, Rolls Royce, Pratt & Whitney, Collins Aerospace, Safran)
- Meets FAA/EASA Burn Test and FST requirements

THE GREENE TWEED IMPRINT

- Full-service partner - in-house engineering, design, testing & analysis
- Full Xycomp DLF design allowables data
- Over 400,000 Xycomp DLF components flying
 - Brackets, fittings and attachment hardware
 - Airflow structures and fairings
 - Housings/enclosures
 - Lightweight structures
- Global presence and support

WHEN IT CAN'T FAIL



Choose Greene Tweed

For more than 60 years, Greene Tweed has designed and manufactured materials and engineered components that perform for the Aerospace and Defense industry – no excuses, no exceptions.



Fairings



Structural Air Flow Doors



Housings & Enclosures



Brackets & Fittings

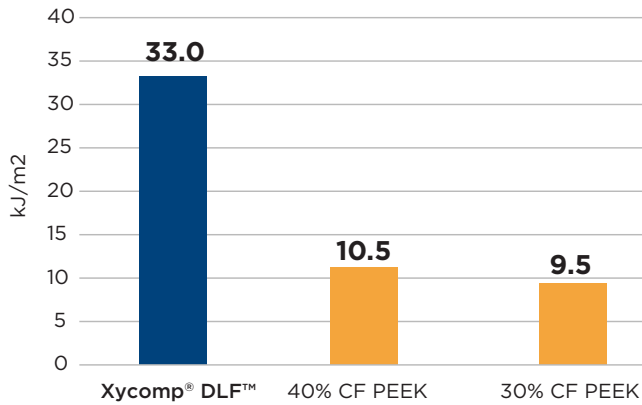


Lightweight Structures

Selected Benefits vs. Injection Molding

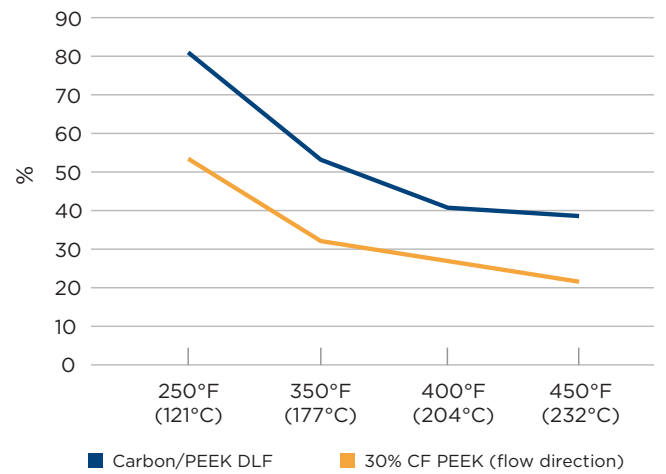
Impact performance vs. injection molding materials

Izod impact, Xycomp® 5175 DLF™ vs. 30% and 40% CF PEEK



Elevated temperature performance vs. injection molding materials

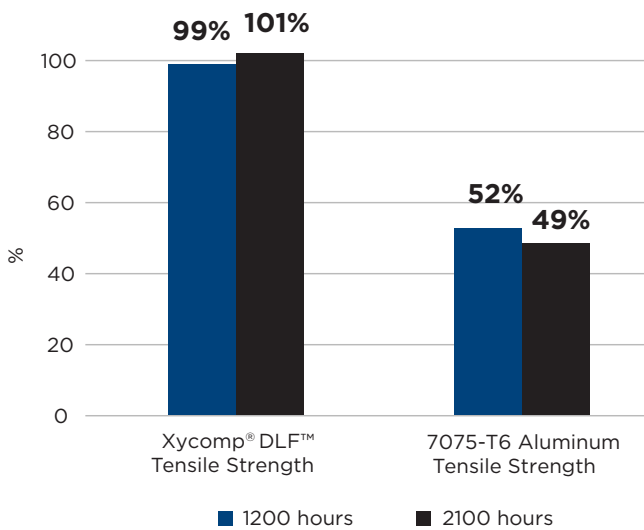
Retention of RT tensile strength at elevated temperature, Xycomp® 5175 DLF™ vs. 30% CF PEEK



Selected Benefits vs. Metals

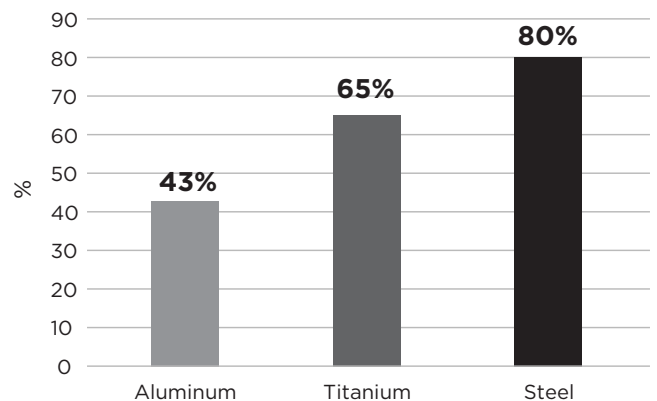
Thermal aging performance vs. aluminum

% Retention of properties after thermal aging at 350°F (177°C) Xycomp® 5175 DLF™ vs. aluminum




Density reduction vs. metal for weight savings

Xycomp® DLF™ density reduction vs. metal



Headquarters

Hong Kong

 +852 2305 4111  +852 2305 4388 inquiries@topcast.com 26/F Metropole Square,
2 On Yiu Street, Shatin, Hong Kong

Website



LinkedIn



Our Presence

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Guangzhou Taipei

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Brazil
El Salvador

Oceania

Australia

EMEA

United Kingdom United Arab Emirates



AOG SUPPORT

We are committed to providing our support to you at any location worldwide, with a team of highly skilled, trained, and experienced aircraft maintenance licensed engineers as soon as possible.

 inquiries@topcast.com

**At your service.
Anytime, Anywhere.**