

TECHNICAL DATA SHEET

carbitex

D147 (30°)
DFX



PRODUCT TYPE

DFX is an engineered flexible carbon fiber, epoxy, polymer composite

TYPICAL APPLICATIONS

- Footwear Outsole/Midsole Component
- Sporting Goods
- Footwear Insert/Orthotic

TYPICAL COMPOSITION

- Carbon Fiber: 34%
- Polymer: 57%
- Epoxy: 9%

REFERENCE

- [AFX/DFX Footwear Design Guidelines](#)
- [AFX/DFX Cutting & Forming Guidelines](#)
- [AFX/DFX Molding and Bonding Guidelines](#)

*References can be found at www.carbitex.com.

| Property | D147 |
|------------------------------------|----------|
| Thickness (mm) | 1.3 |
| GSM | 1680 |
| Carbon Fiber | 3K twill |
| High Rigidity (N-cm ²) | 440 |
| Low Rigidity (N-cm ²) | 110 |
| Modulus (Gpa) | 9.7 |

PRODUCT DESCRIPTION

Carbitex products are all engineered carbon composite construction using our patented flexible carbon fiber technology.

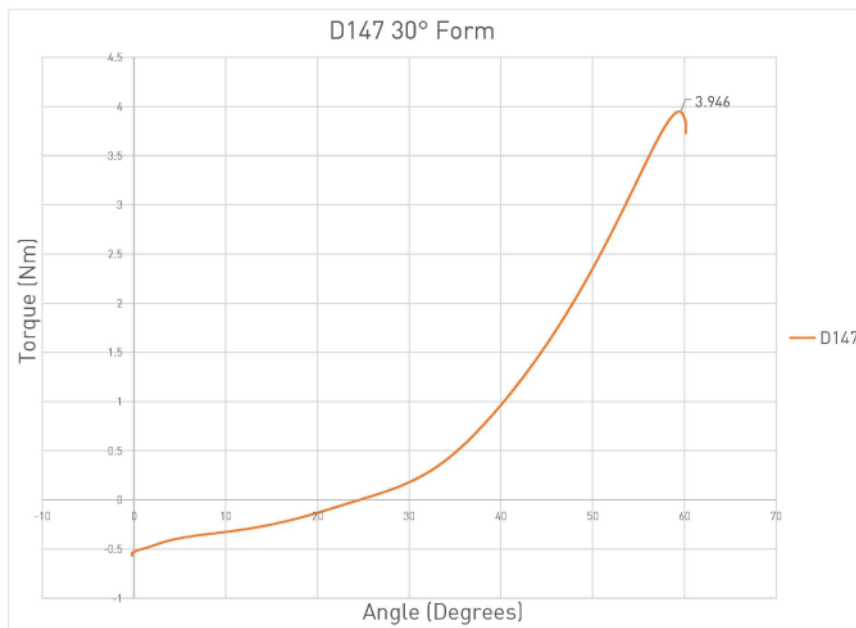
DFX material is a carbon fiber based composite material which provides a non-linear increase in stiffness when flexed and is tunable to achieve user defined performance.

PRODUCT BENEFITS AND FEATURES

- **DYNAMIC FLEX:** Non-linear increase in stiffness when flexed.
- **TUNABLE:** Tunable for virtually every performance footwear category.
- **CONSISTENT PERFORMANCE:** Flexes for hundreds of thousands of cycles and maintains performance.
- **LIGHTWEIGHT:** Maintains carbon fiber's lightweight characteristics.

MATERIAL FORMAT

- Material is sold in sheet size 1M x 1M nominal size
- Can be provided cut to customer profile and pre-formed.



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