

## Hexcel® UHM Carbon Fiber (12,000 Filaments)

Category : Carbon , Carbon Fiber , Other Engineering Material , Composite Fibers

### Material Notes:

Weight/length = 0.341 g/m. Information provided by Hexcel Corporation. Values are typical average lot properties. Continuous fiber can be combined with virtually all thermoset and thermoplastic resin systems. They are used for weaving, braiding, filament winding applications, unidirectional tapes and prepreg tow for fiber placement. Chopped fibers are used in compression and injection molding compounds to produce machine parts, gears, and chemical valves. The finished products have excellent corrosion, creep and fatigue resistance plus high strength and stiffness characteristics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-UHM-Carbon-Fiber-12000-Filaments.php](http://www.lookpolymers.com/polymer_Hexcel-UHM-Carbon-Fiber-12000-Filaments.php)

Physical Properties	Metric	English	Comments
Density	1.87 g/cc	0.0676 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	3730 MPa	541000 psi	
Elongation at Break	0.80 %	0.80 %	
Modulus of Elasticity	440 GPa	63800 ksi	Tensile modulus calculated at secant 6000-1000

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