

Hexcel® IM4 Carbon Fiber (12,000 Filaments)

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

Material Notes:

Weight/length = 0.723 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-IM4-Carbon-Fiber-12000-Filaments.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	4500 MPa	653000 psi	
Elongation at Break	1.6 %	1.6 %	
Modulus of Elasticity	276 GPa	40000 ksi	Tensile modulus calculated at secant 6000-1000

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