

## Toho Tenax Besfight® MC Type I (3000 Filament) Nickel Coated Carbon Fiber

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

### Material Notes:

Besfight MC Polyacrylonitrile (PAN) based fiber combines the mechanical properties and flexibility of carbon fiber with the electrical conductivity of nickel. It does not delaminate even at the mechanical breaking point due to the good bond between the carbon fiber and nickel. Used in thermoplastic compounds for EMI shielding. Information provided by Toho Carbon Fibers, a wholly owned subsidiary of Toho Tenax Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toho-Tenax-Besfight-MC-Type-I-3000-Filament-Nickel-Coated-Carbon-Fiber.php](http://www.lookpolymers.com/polymer_Toho-Tenax-Besfight-MC-Type-I-3000-Filament-Nickel-Coated-Carbon-Fiber.php)

Physical Properties	Metric	English	Comments
Density	2.70 g/cc	0.0975 lb/in <sup>3</sup>	
Thickness	0.250 microns	0.00984 mil	Ni Coating Thickness
Fiber Count	3600 dtex	3240 denier	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	3330 MPa	484000 psi	
Elongation at Break	1.5 %	1.5 %	
Tensile Modulus	226 GPa	32700 ksi	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000750 ohm-cm	0.0000750 ohm-cm	

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