

## Honeywell Spectra® 1000 Fiber

Category : Other Engineering Material , Composite Fibers , Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

Spectra® fiber 1000, the second in a series of Spectra® fibers, was developed to meet customers' needs for increased performance. It is available in a multitude of deniers for use in a wide range of applications. This extended chain polyethylene fiber has one of the highest strength to weight ratios of any manmade fiber. Spectra® fiber 1000 has a tenacity 15 to 20 percent higher than that of Spectra® fiber 900. Spectra® fiber is, pound-for-pound, 10 times stronger than steel, more durable than polyester and has a specific strength that is 40 percent greater than aramid fiber. Specific performance is dependent upon denier and filament count. Spectra® is a registered trademark of Honeywell and was formerly a product of Allied Signal.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Honeywell-Spectra-1000-Fiber.php](http://www.lookpolymers.com/polymer_Honeywell-Spectra-1000-Fiber.php)

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	3000 MPa	435000 psi	
Modulus of Elasticity	172 GPa	24900 ksi	

Thermal Properties	Metric	English	Comments
Melting Point	147 °C	297 °F	

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