



BioMid® 100 Percent Cellulose Reinforcement Yarn

BioMid® fiber is a continuous filament yarn produced from highly crystalline renewable cellulose. The yarn contains approximately 900 continuous filaments of 11 micron diameter. Because of its low density and strong mechanical performance, BioMid fiber is suitable for reinforcement in engineering plastics, rubber products, and composite materials. Typical applications include lightweight composites, automotive components, industrial rubber goods, and sustainable material systems.

Property	Unit	Typical Value	Notes
Linear Density	Denier	1600 (+/- 5%)	Continuous filament yarn
Strength at Break	kg	12.6	
Elongation at Break	Percent	4.5	
Tenacity	g/d	8.5	
Tenacity	MPa	Approximately 1275	Converted from g/d
Tensile Modulus	g/d	315	
Tensile Modulus	GPa	Approximately 47.2	Converted from g/d

Test Conditions Temperature: 20 C +/- 2 C Relative Humidity: 65 Percent +/- 2 Percent
Specimen Conditioning: 24 hours prior to testing Yarn Twist: 80 TPM Test Method: ASTM
D885 Tensile Testing