

# The Impact of Fiber Properties on Yarn and Fabric Quality



Fiber is the foundation of all textile products. To achieve target fabric specifications you must begin with the appropriate fiber properties.

FIBER QUALITY	DEFINITION	YARN IMPACTS	FABRIC IMPACTS
<b>Micronaire</b>	The fineness and maturity of the fiber.		
<b>Staple length</b>	The length of the fiber, reported as the average length of the longer one-half of the fibers (upper half mean length).		
<b>Length uniformity</b>	The length variation of the fibers and the best indicator of short fiber content.		
<b>Strength</b>	The amount of force required to break a bundle of fiber.		
<b>Color grade</b>	The fiber reflectance and yellowness of the fiber.		
<b>Trash grade</b>	The amount of leaf, plant and other non-lint material in the cotton fiber.		

YARN



Hairiness



Evenness/  
Imperfections



Strength



Spinning  
Efficiency

FABRIC



Dyeability



White  
Specs



Appearance



Strength



Pilling