

NYLON

- 480° F (290° C) max
- strong & elastic
- easily dyeable
- moderately alkaline resistant

[Find it here](#)

TEFLON[®]

- 620° F (290° C) melt point
- -350F min
- zero slipstick
- highly acid & alkali resistant

[Find it here](#)

NOMEX[®]

- 680° F (290° C) char point
- does not melt
- limited dyeability
- moderately acid & alkali resistant

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POLYESTER

- 480° F (290° C) max
- strong & stretch resistant
- anti-wicking
- moderately acid resistant

[Find it here](#)



NYLON vs. POLYESTER

SIMILARITIES: Fabrics composed of nylon and polyester fibers are similar in many respects.

- They are similarly priced
- Their melting points are nearly identical (approx. 480°F, 295°C)
- They are similarly strong, with nylon having the edge
- They are quick-drying and mildew resistant
- Arguments exist on both sides about which fiber is better suited for UV resistance, and both will experience significant strength degradation over time with extended UV exposure.
- Because nylon modestly outperforms polyester in abrasion resistance testing and is easier to dye, nylon is favored in outdoor luggage and sports applications.
- Polyester is more resistant to stretching and shrinking than nylon, making nylon the preferred fiber for applications where stretch and shock resistance are required, such as in parachutes.
- Both fibers are relatively non-hydrophilic, but being less moisture absorbent polyester is preferred in many anti-wicking applications, such as substrates for pressure sensitive diaphragms.
- Both fibers retain their excellent properties under very low temperature conditions making either fiber an excellent candidate for upper and outer atmosphere applications.



DIFFERENCES: Where polyester and nylon diverge significantly is in their chemical behavior. They are chemical mirror images of each other. Polyester favors acidic environments (pH<7.0), while nylon favors alkaline environments (pH>7.0). Given exposure to the wrong chemical environment, either fiber will deteriorate rapidly, especially at elevated temperatures.

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Search any or all of the specs below.

Weave	Any	
Weight oz/sq yard	(min)	(max)
Thickness (inches)	(min)	(max)
Air Permeability (cfm)	(min)	(max)
Tensile Strength (lbs.)	(min)	(max)
Warp		
Filling		
Thread Count (Inch)	(min)	(max)
Warp		
Filling		

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