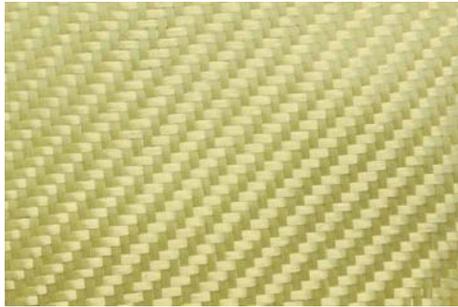


Woven Aramid Fabric



Kevlar® fibers were first developed by DuPont® in the early 1970's. These fibers are an organic fiber found in the aromatic polyamide (aramid) family and are typically gold in color. Aramid (Kevlar®) is best suited for applications where toughness is preferred. In addition, Aramid (Kevlar®) fibers offer high strength, low weight, desired stiffness and thermal stability. These fibers are 43% lighter than fiberglass, twice as strong as E-glass, and ten times as strong as aluminum. These unique properties make it an exceptional fiber for use in composite reinforcements, ballistics applications, ropes, cables and protective apparel. Due to these unique properties we recommend using specialized shears for cutting. Aramid (Kevlar®) fiber is difficult to sand and is adversely affected by UV light. So it is often buried under fiberglass or other material.

Part	Style	Weave	Weight	Thickness	Count (W x F)	Warp Fiber	Fill Fiber
1.7 oz	120/350	Plain Weave	1.7 oz/yd ²	.0039"	34 x 34	Kevlar® 49, 195 denier	Kevlar® 49, 195 denier
5.0 oz	281/352	Plain Weave	5.1 oz/yd ²	.009"	17 x 17	Kevlar® 49, 1140 denier	Kevlar® 49, 1140 denier
5.0 oz	-	2x2 Twill Weave	5.3oz/yd ²	.012"	17 x 17	Kevlar® 49, 1140 denier	Kevlar® 49, 1140 denier

Fiber	Density	Breaking Strength, Warp	Breaking Strength, Fill	CTE	Decomposition Temperature
Kevlar® 49	.052 lb/in ³	260 lbf/in	260 lbf/in	-2.4 x 10 ⁻⁶ /°C	800-900°F

Technical information is for the raw aramid fibers, not the woven fabric. KEVLAR® is a registered trademark of E.I. du Pont de Nemours and Company and is used with permission.

All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.