Ballistic Materials Information

Ballistic protection comes in a variety of configurations and styles. Whether you need a concealable vest or a customized tactical design, we have several choices to choose from. Here is a brief description of the materials used to create our many designs in your needed threat level.

Micro-filament Aramid ballistic fabric, a long time veteran woven material, is one of the most widely used ballistic materials today. Since its introduction, companies including Teijin Twaron®, have gone to great lengths to improve its characteristics and optimize its performance. When used in bullet-resistant vests, micro-filament Aramid woven material consistently supercedes its rated stopping ability. All of our micro-filament Aramid material has been water repellent treated to limit ballistic degradation due to moisture. Twaron LFT is the newest ballistic fiber in the industry and provides the benefits of Aramid without the typical stiffness from quilt stitching.

Goldflex™ was developed by Honeywell as a complement to other ballistic materials. It is composed of non-woven Aramid fibers processed through Honeywell's patented Shield Technology. This process produces a ballistic material that performs well under extreme conditions with regard to back face trauma.

Zylon was developed in Japan by Toyobo. Zylon is a lightweight, woven, high tensile ballistic fabric used in our lightest vest series. Vests made with this state-of-the-art, high-tech material provide uncompromising protection with exceptionally high V_{50} ratings.

				EPIC			ARMOR LFT			HYBRID			ARMOR LITE		
	IIA	II	IIIA	IIA	II	IIIA	IIA	II	IIIA	IIA	II	IIIA	IIA	II	IIIA
Areal Density (lbs per sq ft)	N/A	0.60	0.74	0.57	0.62	0.83	N/A	0.72	0.92	N/A	0.85	1.23	0.76	0.96	1.18
Panel Thickness (inches)	N/A	0.19	0.21	0.12	0.14	0.19	N/A	0.13	0.17	N/A	0.16	0.25	0.16	0.20	0.25
Z3 ZYLON®	N/A	●	●		●	●	N/A			N/A					
Z1 ZYLON®	N/A			●			N/A			N/A					
GOLDFLEX™	N/A			●	●	●	N/A			N/A	●	●			
TWARON LFT®	N/A						N/A	●	●	N/A					
TWARON®	N/A			●			N/A			N/A	●	●	●	●	●