

Optimized for Soft Armor

T-Flex® is a proprietary blend of aramid fibers that form a superior ballistic resistant compound providing powerful protection against a multitude of impacts. T-Flex® SA disperses blast energy with just a few lightweight layers. T-Flex® SH weighs only 5.75 ounces per square yard and has superior durability to woven products. T-Flex® SA & SH form to most shapes and is easily fabricated and comfortable to wear. T-Flex® SA & SH can be used in soft body armor as well as Bomb Blankets.

Benefits:

- 5-Times Stronger Than Steel
- Superior Impact Resistance
- High Strength-to-Weight Ratio
- Flexible and Easy to Wear
- Meets NIJ IIIA Standards
- Resists Heat up to 700°F

Applications:

- Law Enforcement Bullet-Proof Vests
- Military Soft Body Armor
- Ballistic Blankets



Technical Specifications

Multiple Layer Lamination	0/90 or any combination	
Resin Content	15%-20%	
Filaments	50% more than traditional aramid	
Standard Widths	48"	
Yards per Roll	150, 300	
Fiber Content	1000 denier 2000 series Teijin Twaron	

Products & Configurations

T-Flex® SH	5.75 +/- 0.2 oz/yd ²	Standard Soft Armor
T-Flex® SA	10.5 +/- 0.3 oz/yd ² -multi-ply	Highest Ballistic Performance



T-FLEX® H
Optimized for Hard Armor

T-Flex® H unidirectional fabric is your ultimate hard armor solution. It is safer and more user-friendly than the competition. T-Flex® H has no shelf life issues, no volatiles, no ozone depleting manufacturing processes or substances, fast molding cycle time, plus it is easy to cut and handle. Lightweight and tough, T-Flex® H high energy absorption provides powerful protection against ballistic impacts, blasts, and fragments.

Benefits:

- 5-Times Stronger Than Steel
- Press or Autoclave Moldable
- Exceptional Impact Energy Attenuation / Absorption
- High Strength-to-Weight Ratio
- Meets NIJ Standards
- Extreme Temperature Resistance
- Improved Stiffness

Applications:

- Military Hard Body Armor
- Law Enforcement Shields & Helmets
- Vehicle Armor Systems
- Aircraft Armor Systems
- Structural Composites
- Marine Armor Systems and Shields


Technical Specifications

Multiple Layer Lamination	0/90 or any combination
Resin Content	15%-20%
Filaments	50% more than traditional aramid
Weight/Thickness	5.75 +/- 0.2 oz/yd²
Standard Widths	48"
Yards per Roll	300
Fiber Content	1000 denier 2000 series Teijin Twaron

K-FLEX® SH

Kevlar® brand fiber is manufactured by DuPont. It is a combination of high strength and durability to help dramatically improve the performance of soft armor for law enforcement and military. The proven protection of Kevlar® has evolved over four decades, helping save thousands of lives around the world.

Combining Kevlar® with Tech Fiber's patented UD process gives aggressive performance designed to stop the world's most dangerous threats. With no Shelf life issues, no ozone depleting manufacturing processes or substances, fast cycle times, the lightweight and tough K-Flex® is the protection you need.

Benefits:

- 5-Times Stronger Than Steel
- Superior Impact Resistance
- High Strength-to-Weight Ratio
- Flexible and Easy to Wear
- Resists Heat up to 700°F
- Can be molded into a composite with I-Flex
- In properly designed solutions will meet NIJ 0101.06 standards.



Applications:

- Law Enforcement Bullet-Proof Vests
- Military Soft Body Armor
- Ballistic Blankets
- Correctional officer triple threat vests



Technical Specifications

Multiple Layer Lamination	0/90 or any combination
Resin Content	15%-20%
Filaments	50% more than traditional aramid
Standard Widths	48"
Yards per Roll	150, 300
Weight	5.75 oz/sq yd
Fiber Content	1000 denier Dupont Kevlar

