



Twaron® ComForte SB3: being protected has never felt this comfortable

In unpredictable, hostile environments with ballistic threats, law enforcement officers working long hours need body armor that is comfortable and flexible. Soldiers in conflict zones wearing heavy equipment also require soft body armor that is both lightweight and protective. What if a highly flexible material could be integrated into body armor to enable law enforcement officers and soldiers to move easily while being fully protected?

Twaron® ComForte SB3

For over 30 years, Teijin Aramid has been developing high-performance ballistic protection solutions that have saved countless lives. The new Twaron® ComForte SB3 solution delivers lighter body armor with ultimate flexibility and long-term stable performance for law enforcement officers and military personnel. By integrating state-of-the-art Twaron® Ultra Micro yarn, Twaron® ComForte SB3 enables one of the

lightest ballistic protection solutions commercially available, that will meet both today's and tomorrow's needs.

Time for more flexible protection

In dangerous environments involving ballistic threats, being flexible and agile can be the difference between life and death. Ballistic protection products need to deliver high levels of protection without compromising user flexibility and comfort, which are largely determined by the properties of the materials. Even small differences in a solution's wearing comfort and flexibility can become important over long hours of duty.



Key benefits of Twaron® ComForte SB3:

- > **Offers higher flexibility and wear comfort**
- > **Enables light weight solutions**
- > **Excellent trauma control**
- > **Proven long-term consistent performance**

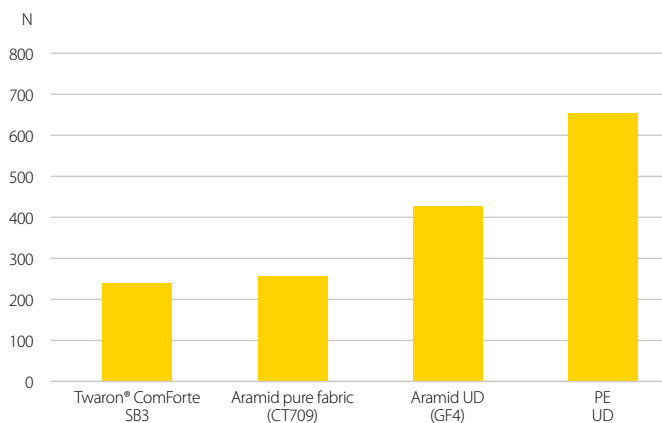
Twaron®



Teijin Aramid's state-of-the-art Twaron® ComForte SB3 solution combines the wear and tear resistance of a woven fabric with the ballistic efficiency of a unidirectional laminate, while also delivering ultimate body armor flexibility. As such, body armor can be better shaped to the body line, making it more comfortable for soldiers and law enforcement officers who need to use it over extended periods of time. Furthermore, Twaron® ComForte SB3 enables solutions for the increasing number of female law enforcement officers and soldiers.

Flexibility test result shows Twaron® ComForte SB3 needs as little force as pure fabric to demonstrate its flexibility. The test has been conducted following the ASTM D4032-92 method, based on NIJ IIIA level pack.

Flexibility test done in accordance with ASTM D4032-92 for multiple layers instead of single layer. The less force (N) needed, the more flexible the panel is.



A next-generation solution for lower weight

Dedicated Teijin Aramid R&D efforts resulted in state-of-the-art material enabling lighter-weight protection. Body armor made of Twaron® ComForte SB3 can achieve outstanding ballistic protection with more flexibility, comfort and mobility for the wearer. It is very effective against high energy semi jacketed projectiles like .357 Mag JSP and .44 Mag SJHP.

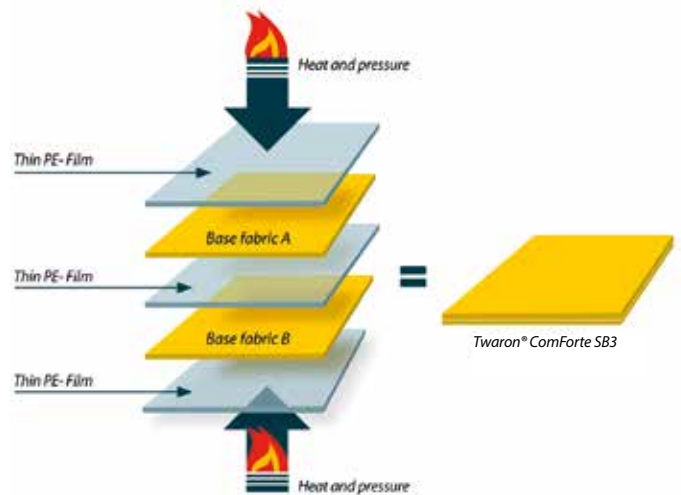
The material's unique construction, its flexibility combined with high ballistic efficiency and very good trauma attenuation enables designing comfortable and lightweight solutions, meeting demanding protection requirements such as level II and IIIA in accordance with NIJ standard 0101.06.

Long-term performance consistency

The construction of Twaron® ComForte SB3 ensures that the solution's ballistic performance stays stable. Teijin Aramid's accelerated aging tests using elevated temperature and moisture concentration shows that Twaron® ComForte SB3 body armor performance is hardly affected, and offers great ballistic performance at all points of its lifecycle. Twaron® ComForte SB3 will reliably keep law enforcement officers and soldiers protected, flexible and mobile, whenever required.

Professional support

Teijin Aramid has extensive experience in developing ballistic solutions of all kinds. To ensure that your specific needs are met and to create the optimum solution, Teijin Aramid offers a wide range of dedicated support options. These can include technical support at your location, as well as the use of our dedicated test facilities. Get in touch with Teijin Aramid sales representatives about your needs.



Production process of Twaron® ComForte SB3

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