



smart
performance
fibers

HPF STAPLE

High Performance Staple Fibers Product data sheet

 **Dyneema®**

OBLIX™

Vectran™

Twaron®

Technora®

ZYLON®



High Performance Staple Fibers

Through our partners, we have direct access to the world's leading high performance continuous fibers. We are able to create customized staple fibers tailored to your needs. High Performance Staple Fibers are usually blended with traditional materials to significantly increase the performance in the end product. All High Performance Fibers have their own unique strengths. Because of the extreme high strength of our High Performance Fibers typically only a small amount of is required to blend into the mix to significantly increase the performance and durability of the final product which results in a more sustainable product. We advise our customers on different fibers depending on their focus areas.

Polymer	Brand name	Denier per filament	Color	Strenghts
UHMwPE	Dyneema®	2 DPF	White/Black	Cut / Chemical resistant and light weight
PPTA	Twaron®	1.5 DPF	Yellow/Black	Heat / cut resistant
PPTA	Technora®	1.5 DPF	Dark Beige/Black	Heat / Chemical resistant and dimensional stability
LCP	Vectran®	5 DPF	Beige/Black	Dimensional stability, Chemical and Acid resistant, vibration damping
PBO	Zylon®	1.5 DPF	Gold	Heat resistant, dimensional stability, abrasion resistant, Chemical resistance.

Available cutting lengths: 32, 38, 50, 60, 80, 90, 100, 120 & 150mm

Levi's 501 denim reinforced with Dyneema® staple fiber

One of the most interesting and most recent applications of Dyneema® staple fiber were developed in a cooperation between Levi's Strauss & Co and EuroFibers. Levi's Strauss & Co. launched its famous Levi's 501 reinforced with Dyneema® as the Levi's 501 STA-Strong Warrior with great success. Because of the extreme high strength of our High Performance Fibers, only a small amount of these staple fibers is required to blend into the mix to significantly increase the performance and durability of the final product which results in a more sustainable product. This application in denim is just one example how High Performance Fibers are able to create comfortable denim with increased abrasion resistance and tear strength.

Dyneema® is a registered trademark of DSM.

Twaron® is a registered trademark of Teijin Aramid B.V.

Technora® is a registered trademark of Teijin Aramid B.V.

Vectran™ is a registered trademark of Kuraray Co.,Ltd.

Zylon® is a registered trademark of Toyobo Co.,Ltd.

FIBRXL PERFORMANCE

Wethouder Sangersstraat 56
6191 NA Beek, The Netherlands
Phone +31 43 30 40 015

4590 Vawter Ave.
Richmond, VA 23222, USA
Phone +1 804 329-0491

performance@fibrxl.com

fibrxl.com