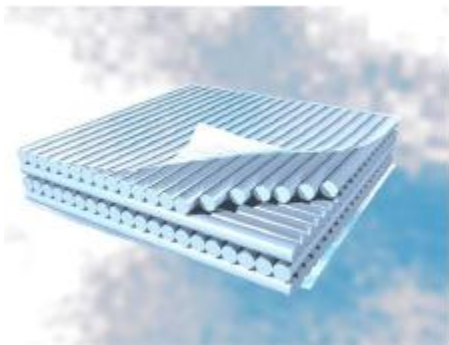


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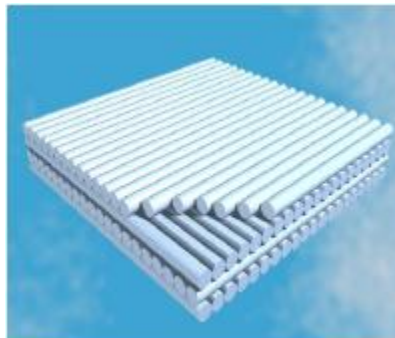
About Dyneema® UD

Dyneema® Unidirectional (UD) material for armor solutions comprise multiple layers of UHMWPE fibers of DSM Dyneema®.

In each layer the fibers are placed perpendicular to those in the adjacent layers – which allows the energy from the impact of a ballistic threat to be distributed along the fibers much faster and more efficiently than in conventional, woven fabrics.



Dyneema® SB



Dyneema® HB

The key difference between UD products made for soft ballistic (SB) and hard ballistic (HB) applications is that Dyneema® SB products feature a thin layer of film on the top and bottom of the layered composite. This increases pliability while also protecting the material from undue abrasion.

Both Dyneema® SB and Dyneema® HB solutions offer an optimal balance of strength and weight.

Quality Control

DSM Dyneema ensures the highest possible quality of its final products by setting strict standards for every phase of the operation. This begins with the raw materials used to make our products, and an extensive yet selected group of preferred suppliers. Besides selecting top quality preferred suppliers, DSM Dyneema constantly monitors the quality of the raw materials to ensure a consistent processing and quality of our product. Our most critical raw material is of course our UHMWPE fiber, which is solely made internally by DSM Dyneema, to ensure the highest possible quality.

In production, critical process and product characteristics are continuously controlled to ensure constant end-product quality. Our production specialists and researchers, in cooperation with our suppliers, are continuously looking for ways to improve the performance of the material, as well as production.

www.dyneemamatters.com

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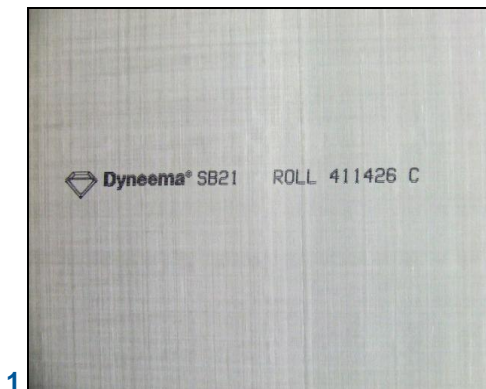
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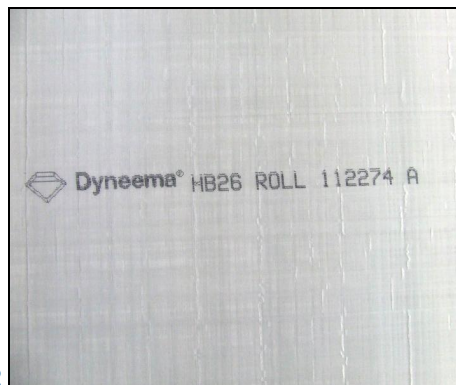
About Dyneema® UD

After production, Dyneema® UD undergoes a rigorous visual inspection. Trained personnel inspect for visual defects, against demanding specifications which have been set with our customers. Any roll which does not meet these specifications is scrapped. At a predefined test frequency, a test package is made from a mother roll, which is subjected to a ballistic test against a defined threat. A mother roll usually constitutes of 9-10 boxes. For every shipment, a summary of the QC test results is available on customer's request. This summary is also available per box on request.

Dyneema® UD can be recognized by the print on the UD sheet, comprising the word mark Dyneema® and the 'diamond' logo. A unique number is printed on every roll of Dyneema® UD so as to facilitate quick back-tracking of the material details once out of the factory. Few examples are shown hereunder for Dyneema® UD & products made of Dyneema® UD.



1



2

Pic 1 & 2 – Dyneema® UD with the word mark Dyneema® and the 'diamond' logo



3



4

Pic 3 & 4 – Cut-out of a single sheet Dyneema® UD typically used for a vest

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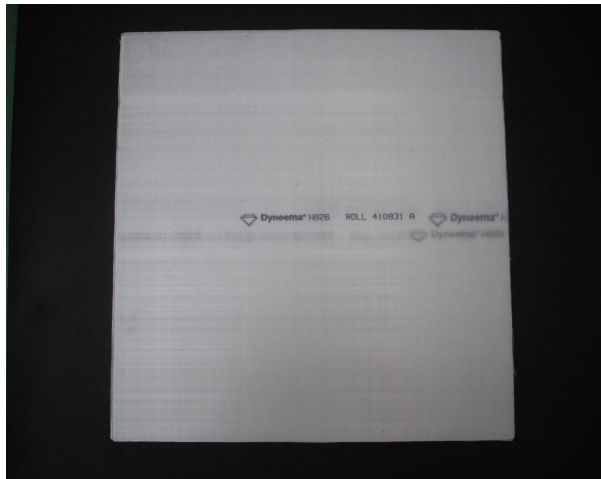
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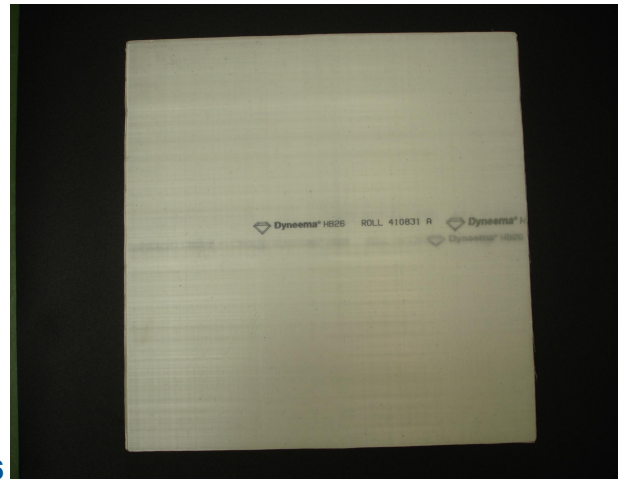
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Pic 5 & 6 – Armor panels made of Dyneema® UD

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