

Body armor made with bio-based Dyneema® fiber.

No compromises on protection and sustainability.

3 reasons to choose body armor with bio-based Dyneema® fiber.



Protection

Soft armor with Dyneema® offers wearer protection against a range of threats including handgun ammunition, fast-moving fragments, and knives.



Lightweight

Body armor with Dyneema® provides the lightest option with maximum protection, flexibility and comfort. Dyneema® vests are proven to last.

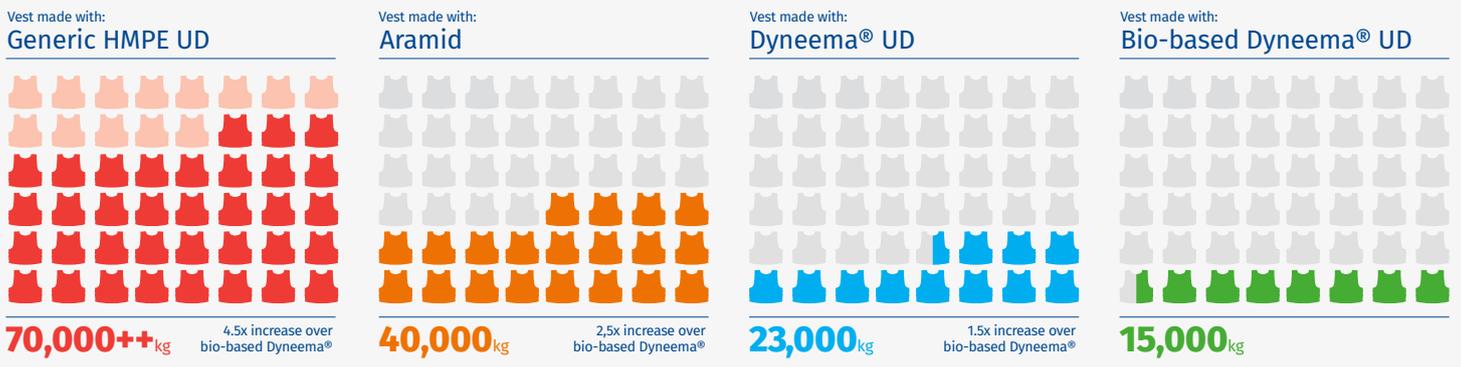


Sustainable

A soft armor vest made with bio-based Dyneema® has a carbon footprint that's 50% to 80% lower than competing alternative products.

Carbon Footprint Comparison: Dyneema® outperforms all competing alternatives.

The numbers shown in the chart are based on 1,000 vests



Assessment is based on the CO₂ equivalence per 1,000 soft ballistic vests designed for Standard NIJ01.01.06, Level IIIA performance. Carbon footprint comparisons calculated by DSM, using Life Cycle Assessment methodology and publicly available information about other materials.

Carbon footprint reduction.

1,000 vests made with bio-based Dyneema® UD	Reduces	Compared to	Smartphones charged	Tree seedlings grown for 10 years
	8 tonnes CO ₂	Conventional Dyneema® UD	=	1.02 M
25 tonnes CO ₂	Aramid	=	3.06 M	397
55 tonnes CO ₂	Generic HMPE UD	=	7.01 M	909

From the trees to bio-based Dyneema®, the mass balance approach explained.

DSM has taken the next major step in its sustainability journey by introducing the first ever bio-based ultra-high molecular weight polyethylene fiber (branded as Dyneema®) and further reducing its reliance on fossil fuel based resources. Ethylene is the primary raw material used to manufacture Dyneema® fibers, and is the feedstock that will be transitioned from conventional to a renewable source via mass balancing.

For more information go to www.dyneema.com/biobased.