

DuPont™ Kevlar® MTP™ for Knife-Stab Protection

Reference designs with DuPont™ Kevlar® MTP™ AS technology for knife-stab protection

Military personnel, law enforcement and corrections officers who face multiple threats need multi-threat protection—which is precisely why DuPont developed Kevlar® MTP™ Technology. Kevlar® MTP™ helps protect against threats from firearms, commercially manufactured knives, and puncture-producing weapons, such as ice picks. It is the first specifically engineered to counter threats from multiple types of weapons in a concealable, soft body armor.

Unlike heavier, bulkier garments worn outside the uniform, vests made with Kevlar® MTP™ AS are designed to be more comfortable and flexible for everyday wear. Although hidden under the uniform, Kevlar® MTP™ AS helps provide anti-stab protection meeting global protection standards.

Panel/Vest Construction	Aeral Density, kg/m ²	Aeral Density, psf	U.S. NIJ Stab Std. 0115.00		UK PSDB Stab Std.		CHINA Stab Std.
			Edged-blade Level 1	Edged-blade Level 2	KR1	KR2	GA 68-2003*
22 layers of MTP™ AS	6.60	1.35	Pass	N/A	Pass	N/A	N/A
22 layers of MTP™ AS + 1 layer of Kevlar® felt	6.80	1.39	Pass	N/A	Pass	N/A	Pass
24 layers of MTP™ AS	7.20	1.47	Pass	Pass	Pass	Pass	Pass
4 layers of 1000 denier K129 woven Kevlar® fabric + 18 layers of MTP™ AS + 1 layer of Kevlar® felt	6.43	1.32	N/A	N/A	N/A	N/A	Pass

*GA 68-2003 standard was followed with the exception that the composite foam backing, same as the one specified in NIJ and PSDB stab standards, was used.

Disclosure on Knife-Stab Test Data

The attached knife-stab test data was generated by DuPont and corresponds to DuPont's current knowledge on the performance of the subject test panels against certain knife-stab threats. This information is offered solely to provide possible suggestions for your own experimentation and validation. It is not intended as a substitute for your own testing or any testing you may need to conduct. In particular, if performance data is needed for a specification, or is needed to submit for a bid package, you should undertake your own testing whether you do so yourself with the supplier of the materials to be tested or with an independent, third party, certified testing facility and the supplier of the materials to be tested. DuPont makes no warranties, and assumes no liabilities in connection with any use of the information supplied with this disclosure statement.

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