



Win-Win Cooperation

HY Networks (Shanghai) Co., Ltd.

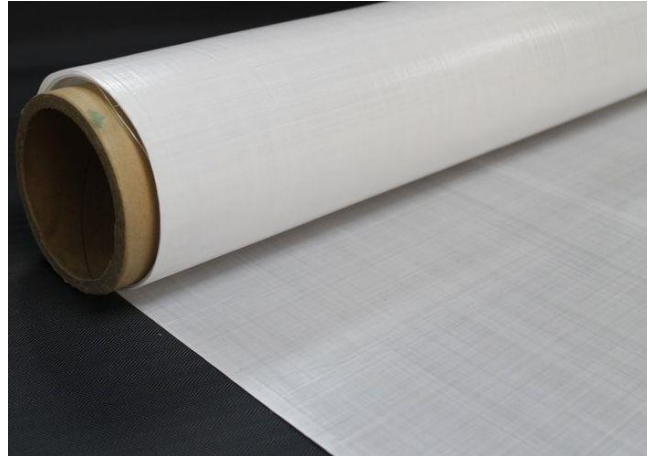
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Technical Data Sheet

Code No: **UPU4-145A**

Description:

UHMWPE UD fabric is compounded by UHMWPE fiber with particular processes by our advanced high-tech equipment. It has the characters and superior performances such as high tensile strength, large modulus, soft texture, impact resistance, cutting resistance, high flexibility, acid & alkaline



resistance, sunshine proof, soaking proof and moisture proof. Because of the advantages, it is widely used in the applications like bullet proof vests, bullet proof helmets, bullet proof armor plates, stab proof and cutting proof clothes as well as special public anti-explosion facilities and safety protection facilities.

Technical data:

Unit Weight		145 ± 5g/m ²	
Yarn		800 Denier	
Direction		0° /90° /0° /90°	
Width		1.2m	
Thickness		0.21 mm	
Protection requirements	Layers	Product unit weight	Standard
China Public Security Level 2	35	5.08kgs/m ²	GA141-2010
China Public Security Level 3	45	6.53kgs/m ²	GA141-2010
NIJ IIIA 9mm	30	4.35kgs/m ²	NIJ0101.04
NIJ IIIA .44	38	5.51kgs/m ²	NIJ0101.06

Yarn used: 800D/736F

Physical Properties	Unit	Nominal	Result	Test Method
Count	dtex	/	881	GB/T14343
Count CV	%	± 4.0	-0.8	
Breaking Tenacity	CN/dtex	≥ 34.0	36.1	GB/T19975
Modulus	CN/dtex	≥ 1250	1670	
Breaking Elongation	%	≤ 4.0	2.8	