



self reinforcing Polypropylene (srPP)

armordon hybrid weaves

As a leading manufacturer of industrial textiles, Don & Low have expertise in extrusion, beaming and weaving a whole variety of different products. Aside from the tapes we produce ourselves, we are also experienced in weaving other materials.

Recent work has focussed on combining these different materials with our own Armordon® product. To date, we have successfully woven aramid, UHMWPE, glass, and high modulus polyolefin fibres with Armordon®. Trials are also underway to incorporate carbon fibre in the matrix.

Although of interest in fabric form, the greater appeal is generated on thermal consolidation of these materials. Traditionally, layers of these fibres cannot be easily bonded without the use of an adhesive, films or a resin impregnation system. In combining these materials with Armordon®, we have found a method of thermally consolidating these materials to produce panels with unique properties.

Using the self-bonding matrix properties of Armordon® to facilitate the consolidation of these dissimilar materials has many attractive benefits:

- Strong, interfacial bond
- No chemical interference between the fibres
- No need for adhesives, films or resin impregnation
- Unique price / performance benefits

Currently, our main interests lie within ballistics and stab protection, but the opportunities for this hybrid system, we believe, are endless!



A patent application has been submitted for this technology.

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