

ABSTRACT

VACUUM BAG MOLDINGS

An innovative manufacturing method for creating three-dimensional internal structures within composite components is presented. A technique is developed for the production of polymer matrix composite products containing both external faces and internal structures in a single process. The main focus is on the production of Chest Armor although the technique is transferrable to other hollow or foam-cored composite products.



SHIELD TECHNOLOGIES

Leading Innovation

This simple method employs a modified vacuum bagging technique, a concept borrowed from the aerospace industry, to produce conventional thick substrate, as well as multi-layer film devices. The bonds produced using this method are superior to those obtained using conventional bonding methods, including vacuum pressurizing, thick substrate devices were produced, as well as a six-layer film device that incorporated several complex features.



SHIELD TECHNOLOGIES

Leading Innovation

CONTACT FOR FULL SYNOPSIS  +91 7892151234

#2232, 16TH B CROSS, SECTOR B, YELAHANKA NEW TOWN, BANGALORE-560064
Ph: +91 7892151234