



Architectural Tensioned Fluoroplastic Film panels

Using the unsurpassed optical properties of FEP and ETFE, in thin gauges, to replace glass, has often been attempted. Some have shown promise and others have fallen by the wayside, due mainly to the complexity and therefore the cost, of supporting thin films to be used in direct contact with atmospheric weathering.

In a novel development, a patented modular panels system is now available, (UK Patent Application 0905286.1). This allows double glazed panels in FEP or ETFE (treated or untreated) to be fitted as glazing to most applications. Already this system is under test in horticultural applications and many other applications are envisaged.

The real novelty of these panels is that they are not pressurised, so costly systems to maintain film tension are not required. Retro-fitting to existing structures, such as greenhouses is entirely practical.

Other advantages of this system are:

- *Better light transmission and heat retention than structures using glass.*
- *Better refractive index of the material. At low angle of incidence, most light will be transmitted through the films, (very important in solar panel applications).*
- *FEP and ETFE will not support combustion and are safer in use, requiring fewer fire exits than where other plastic construction materials are used.*
- *FEP and ETFE exhibit very low coefficient of friction, which means that dirt finds it very difficult to adhere to the panels; they are thus "self cleaning".*
- *FEP and ETFE transmit a high percentage of ultra violet and visible light. FEP is also much more transparent in the infra-red region of the spectrum than glass. As a result, plant growth under such panels can be enhanced as compared to those grown under glass.*

Holscot is looking for interested parties, who want to use these panels in novel applications. Exclusive territories and applications are still available. For more information contact:

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