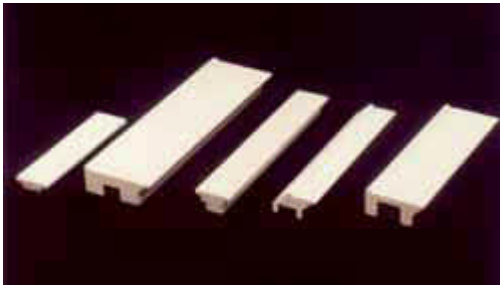


Pultruded Custom Shapes for Composite Foils in Papermaking Process



Fiberglass reinforced profiles are used in conjunction with wear resistant ceramics to form composite foils for controlling the pulp mixture in papermaking. A complicated and dynamic process, papermaking depends on carefully controlled drainage of a highly diluted pulp mixture traveling over the foils at speeds up to 3000 feet per minute.

The pultruded carriers are formulated with polyester or vinylester resins and E-glass fibers to form a void-free composite carrier capable of service in hot, wet and corrosive environments. Carriers must be impervious to chemical attack or moisture absorption to assure dimensional stability and bond strength to the ceramics. The thermal properties of pultrusions are tailored to closely match those of ceramics. The foils operate from ambient to 150°F with similar linear expansion and contraction properties, thus eliminating the tendency for warpage and stress between the two materials.

The pultrusions are produced to close and consistent dimensional tolerances for precise alignment of multiple ceramic segments. Dimensional accuracy and stability is crucial for the pultrusion to undergo subsequent machining of the bonded ceramic segments and the pultrusion for mounting to each paper machine type.

The papermaking process and equipment requires a variety of custom pultrusions dependent on the foil design, location on the machine and paper type. Glasforms produces many shapes from simple to complex in sizes and from a few ounces per foot to several pounds per foot.

The excellent dimensional stability, low thermal expansion, corrosion resistance, and void-free features of Glasforms pultrusions make the application of composite foils possible in the paper industry. These foils provide years of service under severe conditions to prevent costly machine down-time that is typical of the thermoplastic foils they displace.

Process: Pultrusion

Materials: E-glass fiber in corrosion resistant polyester or vinylester resins

Properties: Low linear thermal expansion, dimensional stability and corrosion resistance

Size: Custom profile shapes from .250" to 3" thick, .500" to 6" wide, lengths to 420"

For additional information write or call:

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