

AeroFilm™ AFVB155



Key Features

- 160°C Service temperature
- Self releasing
- Nylon/Polyolefin construction
- Multi-layer reliability

Product Description

AFVB155 is a self releasing multilayer nylon/polyolefin vacuum bagging film designed for processing of hollow composite structures where easy removal of the bag is desirable to avoid damage to the component. The film is ideal for use in both oven and autoclave cures, up to a maximum recommended temperature of 160°C. It is compatible with phenolic and epoxy preregs.

Fold Format

VBT155 is supplied in lay flat tube on the 50mm width and a gusset fold format on sizes 100mm, 150mm and 250mm. The gusset fold is advantageous over standard lay-flat-tube (LFT) as it is easier to accurately place in the mould and can expand more freely without having to slide against the laminate which minimises bridging and improves conformity in difficult to access areas.

Typical Uses

VBT155 Tubular Vacuum Bagging Film is typically used to consolidate hollow section prepreg laminates internally into a female mould to produce tubular moulded parts such as bike frames, duct-work and masts. As the film is self-releasing it is commonly used directly against the laminate without requiring the use of release film and breather, this reduces the bulk of the vacuum stack which is especially helpful when used for components with a smaller diameter. When used in blind or closed end tubes, the film can be easily sealed at one end using an impulse heat sealer as would be used for polyethylene packaging. Although most hollow/tubular applications will be best suited to a prepreg production process, the film is equally compatible with hand lay up and resin infusion methods.

Specification

Property	Units	Method	Value
Material	-	-	Nylon/Polyolefin
Width	mm	Internal	Nominal
Format	-	-	Lay Flat/Gusset Folded
Thickness	µm	ISO 4593	70 ± 10%
Maximum Use Temperature	°C	Internal	160
Density	g/cm ³	Internal	1.01
Tensile Strength at Break MD	N/mm ²	ASTM D882	50 ± 10%
Tensile Strength at Break TD	N/mm ²	ASTM D882	40 ± 10%
Elongation at Break MD	%	ASTM D882	1290 ± 10%
Elongation at Break TD	%	ASTM D882	300 ± 10%
Appearance	-	-	Green. Translucent.

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

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