



### Key Features

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

### Description

High performance self-releasing vacuum bagging film for processing hollow/tubular sections. AFVB155 is self-releasing, allowing the film to be used in direct contact with prepreg and resins. Larger sizes are supplied in gusset fold format making accurate placement easy and improves the expansion and conformity in complex geometries.

### Typical Uses

- Consolidation of hollow section profiles
- Vacuum bagging, resin infusion and prepreg
- Suitable for oven and autoclave use
- Compatible with epoxy and phenolic resins

### Specification

#### 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.

Property	Unit	Test Method	Value
Material	-	-	Nylon/polyolefin
Width	mm	Internal	Nominal
Format	-	-	Lay Flat/ Gusset Folded
Thickness	µm	IOS4593	70 ± 10%
Max Use Temperature	°C	Internal	160 °C
Density	g/cm <sup>3</sup>	Internal	1.01
Tensile Strength at Break MD	N/mm <sup>2</sup>	ASTM D882	50 ± 10%
Tensile Strength at Break TD	N/mm <sup>2</sup>	ASTM D882	40 ± 10%
Elongation at Break MD	%	ASTM D882	290 ± 10%
Elongation at Break TD	%	ASTM D882	300 ± 10%
Appearance	-	-	Green, Translucent

### Handling & Storage

Nylon bagging films are hygroscopic and their behaviour and mechanical properties are affected by their moisture content; particularly the elasticity and softness of the film. Moisture content acts as a plasticiser - a low moisture content will result in a stiffer, less elastic film.

To preserve the performance of the film and ensure consistent behaviour, store unused film in a sealed bag and away from particularly dry conditions.

Recommended storage and use conditions are between 5°C (41°F) and 40°C (104°F) with relative humidity between 25-60%.

### Disclaimer

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