

AeroFilm® VB200



Key Features

- 204°C service temperature
- Very high strength
- 100% nylon construction
- Multi-layer reliability

Product Description

Aerofilm® VB200 is an aerospace-grade, multilayer mono-nylon vacuum bagging film suitable for cure temperatures up to 204°C/400°F. VB200 offers very high tensile strength making it ideally suited to demanding high temperature/pressure curing applications such as aerospace prepregs.

Recommended Uses

- Autoclave-cured prepreg laminating
- High temperature applications (up to 204°C/400°F)
- High pressure applications

Multi-layer Reliability

VB200 uses multiple 100% PA (nylon) layers for maximum reliability. Multi-layer technology eliminates problems caused by imperfections, pin-holes or weaknesses in the film by combining layer after layer into a single, ultra-reliable film.

Lay Flat Tube Format

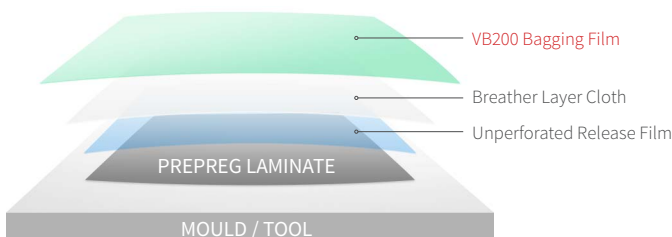
Aerofilm® VB200 is supplied at 1.52m wide in a lay-flat tube (LFT) format meaning that off the roll it is two layers of film with either edge already sealed. This means that each linear metre supplied equals 3.04sqm.

Working with film in a lay flat tube format means that it's often possible to make use of one or both of the existing seams, reducing the amount of bagging tape required to seal your bags and speeding-up the bagging process. It also makes it possible to slit the bag down just one side and open it up to a very wide 3m width - ideal for large bagging projects.

Typical Use

VB200 is most typically used as a specialist bagging film when working with high cure temperature prepregs, applications at high pressures or those requiring a particularly high strength/high reliability bagging film (such as tool leak-testing).

Example Stack : Prepreg Laminating



Specification

Property	Units	Method	Value
Material	-	-	100% Nylon
Width	mm	Internal	1524 (-0 +2%)
Format	-	-	Lay Flat Tube
Thickness	µm	ISO 4593	50 ± 10%
Maximum Use Temperature	°C	Internal	204
Density	g/cm ³	Internal	1.13
Tensile Strength at Break MD	N/mm ²	ASTM D882	90 ±10%
Tensile Strength at Break TD	N/mm ²	ASTM D882	85±10%
Elongation at Break MD	%	ASTM D882	440 ±10%
Elongation at Break TD	%	ASTM D882	450 ±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 65% relative humidity and 20°C/68°F workshop temperature.

Disclaimer

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

Our technical advice, whether verbal or in writing, is given in good faith but Easy Composites Ltd gives no warranty, express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product for their particular application and circumstances.

Easy Composites Ltd shall be in no way responsible for the proper use and service of the product, nor for the safeguarding of personnel or property, all of which is the duty of the user. Any information or suggestions are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Before using any of our products, users should familiarise themselves with the relevant technical and safety datasheets provided by Easy Composites Ltd.

Aerofilm® is a trademark of Easy Composites Ltd.