

DATA SHEET

**ULTRAWEAVE®**  
Nylon Breathers and Bleeders

**Application**

Airtech developed **Ultraweave®** in the late 1980's in response to back pressure and porosity problems caused by polyester breathers. Polyester, while having a high melt point, has a low softening point (VSP) which causes the fibers to fuse together, restricting airflow over 250°F (120°C). After high pressure and temperature cures, polyester breathers can compress to paperlike sheets. All **Ultraweave®** products have a higher temperature softening point and will not compress like polyester allowing for increased airflow. All **Ultraweave®** products are fire retardant.

**Descriptions**

- Ultraweave® 406** This is the lightest, most conformable and least expensive nylon breather in the **Ultraweave®** family.
- Ultraweave® 606** This light weight yet conformable breather replaces most 10 oz. (34 g.) polyester breathers, reducing back pressure and porosity problems.
- Ultraweave® 1032** This heavy duty yet conformable breather will work with most any autoclave cure and prevent "trap off" under the vacuum bag. This product eliminates the need for multiple layers of polyester breather.
- Ultraweave® 1332** The most reliable heavy duty made for high temperature and pressure autoclave cures. When slit, it can be used as an edge durable breather. This product eliminates the need for multiple layers of polyester breather.

**For specific material characteristics, see material characteristics chart on Page 5.**

CATALOG POSITION: **BREATHERS AND BLEEDERS**



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**ULTRAWEAVE®**  
Material Characteristics

Product	Base Material	Color	Nominal Weight oz./yd. <sup>2</sup> (g/m <sup>2</sup> )	Maximum Recommended Use Temperature <sup>(1)</sup> °F. (°C.)	Fire Retardant	Standard Roll Size <sup>(2)</sup> in. x yd. (cm x m)
<b>Ultraweave® 406</b>	Nylon 6,6	White	4 (135)	450 (232)	Yes	60 x 50 (152 x 45)
<b>Ultraweave® 606</b>	Nylon 6,6	White	6 (204)	450 (232)	Yes	60 x 50 (152 x 45)
<b>Ultraweave® 1032</b>	Nylon 6,6	White	10 (339)	450 (232)	Yes	60 x 50 (152 x 45)
<b>Ultraweave® 1332</b>	Nylon 6,6	White	13 (441)	450 (232)	Yes	60 x 50 (152 x 45)

- 1) Maximum recommended use temperature is dependant upon the duration at maximum temperature and is process specific.
- 2) Ultraweave styles indicated are available in widths up to 120" (3.04m) and can be slit to narrow widths. Approximate roll width tolerance +0/-1.0 in. (+0/-25.4 mm)

**NOTE:** Shelf life is 18 months on all **Ultraweave®** styles.

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