



Stitchless Awning Bonding Film

8001

Technical Data

April, 2010

Product Description

3M™ Stitchless Awning Bonding Film 8001 is a flexible, thermoplastic adhesive film which exhibits good adhesion to fabrics¹, including many which are used in the manufacture of awnings. The film features a non-woven scrim to ensure film maintains its integrity during the bonding process.

Key Features

- Excellent adhesion to fabrics, especially many of those used in the manufacture of awnings.
- Provides immediate handling.
- Stable bond strength within four hours.
- Potential for increased application speed when applied using specific machines.
- Robust service temperature range.
- Approved for use in bonding awnings made with Sunbrella® or Firesist™ fabrics².
- Endorsed by leading machine manufacturers for use with their awning heat bonding equipment³.

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only, and should not be used for specification purposes.

Composition	Polyester Thermoplastic
Film Thickness	6.0 mil (152 microns)
Film Width	7/8 inch (2.22 cm)
Roll Length	100 yards (91.44 m)
Core Size	3 inch (7.62 cm)
Color	Translucent / Tan
Specific Gravity	1.0
Solids	100%
Maximum Service Temperature*	230 to 250°F (110 to 121°C)

*Maximum service temperature determined by two methods: (1) ball and ring softening range and (2) the temperature at which 1 inch wide bonded samples hung in shear with a 500 g weight fail. Note that this is the temperature which the bond is exposed to, which is not necessarily the ambient temperature. Other environmental factors can affect temperature resistance. Service temperature may also depend on initial bond strength. User should determine suitability for their specific application.

¹ Product is not appropriate for clothing applications.

² Approval from Glen Raven Custom Fabrics, LLC (manufacturer of Sunbrella® and Firesist™ fabrics).

³ Endorsement received from Miller Weldmaster Corporation® and Sinclair Equipment Company.

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Directions For Use and Application Equipment Suggestions

To make a bond using 3M™ Stitchless Awning Bonding Film 8001, place the adhesive film between two substrates. The bond is then made through heat and pressure. For optimum bonding, temperatures, pressures, and dwell time will depend upon the type and thicknesses of substrates being bonded together.

There are a variety of technologies and equipment which can be used in the application of 3M™ Stitchless Awning Bonding Film 8001 to bond various materials. In general, any equipment capable of reaching the required temperatures and pressures may be used to make a bond. Please follow the equipment manufacturer's application instructions.

It is recommended that whatever method of bonding chosen, the user should determine the optimum bonding conditions using the specific substrates involved.

Storage

For maximum shelf life, store in original packaging at approximately 70°F (22°C) and 40 - 50% relative humidity. **Avoid extreme heat, humidity, or light exposure.**

Shelf Life

When stored under the conditions noted above, product retains its performance and properties for 2 years from date of shipment.

3M™ Stitchless Anwing Bonding Film 8001

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-364-3577.

Certification/ Recognition

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

MSDS: This products is not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, the product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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