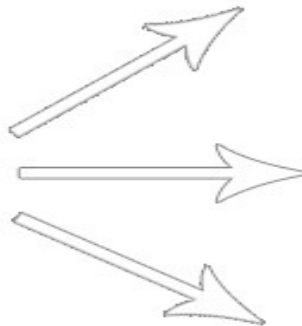
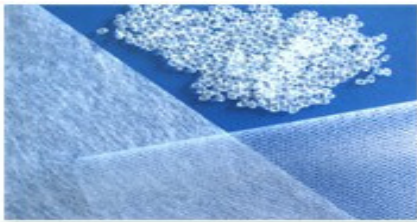


HOT MELT ADHESIVE FILMS

SWABOND - HMAF



SWASAN GLOBALISED

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adaptable SOLUTIONS

SOFT, FLEXIBLE FILMS FOR A WIDE RANGE OF APPLICATIONS

SWASAN has been a leading developer and supplier of products based on advanced **THERMOPLASTICS & HOT MELTS** technology for more than 15 years. Our Engineered Films will work with you to select or develop the right film for your purpose.

When you need reliable adhesives, stick with **SWABOND HOT MELT ADHESIVE FILMS (HMAF)** from the **SWASAN GROUP**.

SWABOND HMAF are engineered to adhere to virtually any substrate, from foam and fabric to metal and wood. And they can be designed to offer a wide range of properties to suit practically any application.

Stick with us for:

- Reliability
- High quality
- Dependability
- Innovation
- A commitment to your success

INNOVATION



adhesive solutions

ENGINEERED to your specifications

SWABOND HMAF are easy to work with and can enhance your products and processes.

In addition to functioning as an adhesive, these films offer added performance properties, easy storage and handling, and design flexibility.

PERFORMANCE PROPERTIES

- ◆ Breathability
- ◆ Barrier properties (air, liquids, etc.)
- ◆ Strength and toughness
- ◆ Significant adhesion to strengthen substrates
- ◆ Dimensional stability and scratch and puncture resistance
- ◆ Chemical and corrosion resistance
- ◆ UV resistance
- ◆ Modified burn characteristics
- ◆ Enhanced acoustical properties
- ◆ Lower the coefficient of friction

EASY STORAGE & HANDLING

- ◆ Furnished in a clean, dry, non-tacky film form
- ◆ Manufactured in continuous rolls
- ◆ Need only heat and pressure for activation
- ◆ Simple cleanup
- ◆ Can be easily disposed or recycled
- ◆ Labor- and space-saving potentials

DESIGN FLEXIBILITY

- ◆ Designed for one- or two-sided adhesion
- ◆ Choice of adhesives, polymer formulations and blends
- ◆ Chemical and corrosion resistance
- ◆ Wide range of bond strengths
- ◆ Modified burn characteristics
- ◆ Variety of activation temperatures



VERSATILE Performance



SWABOND HMAF provide uniform adhesion to a wide range of substrates, including:

Thermoplastics

- ABS
- Polycarbonate
- Vinyl

Textile

- Cotton
- Polyester
- Nylon

Metal

- Aluminum
- Steel or galvanized steel
- Copper

Foam

- Polyurethane
- Melamine

Paper

- Cardboard

Other

- Glass
- Fiberglass

SWABOND HMAF have proven effective in diverse applications.

SWASAN professionals are available to help you select or formulate a film to fit your particular needs.

FOAM

- ◆ Liquid barrier
- ◆ Breathability
- ◆ Slip
- ◆ Formability

APPLIANCE

- ◆ Good adhesion
- ◆ Barrier properties
- ◆ Corrosion resistance
- ◆ Noise or vibration reduction
- ◆ Aesthetics





PAPER, CARDBOARD AND WOOD LAMINATION

- ◆ Good adhesion
- ◆ Moisture barrier
- ◆ Improved opacity
- ◆ Thermal stability
- ◆ Surface sealing



PROTECTIVE CLOTHING

- ◆ Chemical resistance
- ◆ Barrier properties
- ◆ Flexibility / drapability
- ◆ Formability

PACKAGING

- ◆ Easy lamination to a variety of substances
- ◆ Good clarity
- ◆ High toughness and tear resistance
- ◆ Thermoformable



TEXTILES

- ◆ Good adhesion
- ◆ Durability
- ◆ Washability
- ◆ Flexibility
- ◆ Formability
- ◆ Barrier Properties



AUTOMOTIVE

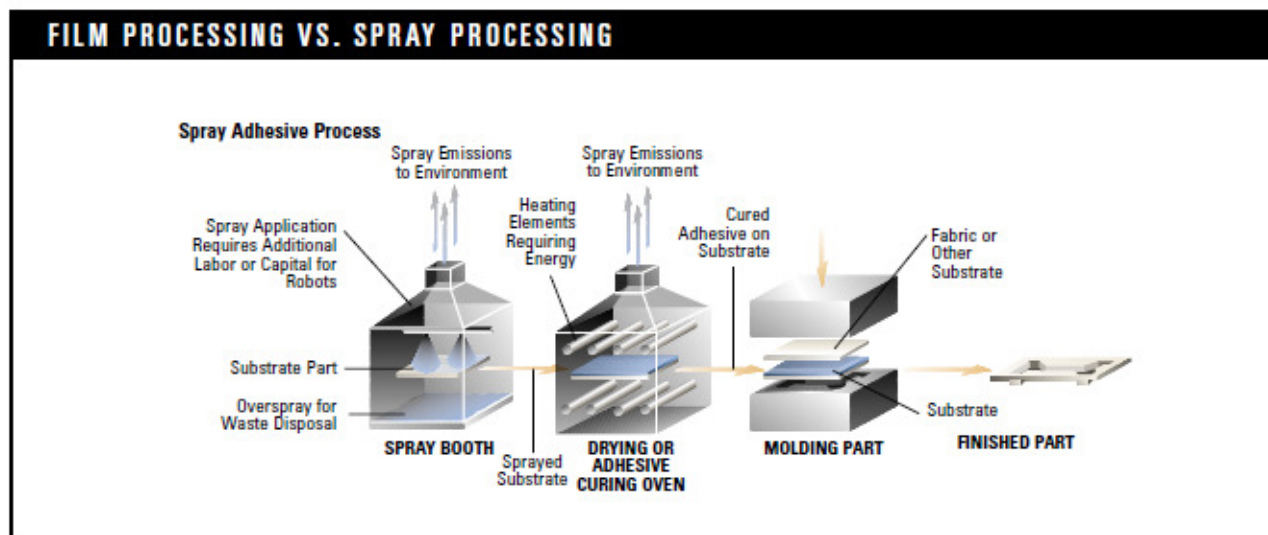
- ◆ Good adhesion
- ◆ Heat stability
- ◆ Flex strength
- ◆ Formability
- ◆ Robustness
- ◆ Enhanced acoustical properties
- ◆ Lower the coefficient of friction



commitment to
THE CHOICE IS SIMPLE
your
success

SWABOND HMAF offers several advantages over liquid adhesives:

- ◆ Precision thickness control
- ◆ Uniform coverage
- ◆ Easy handling and storage
- ◆ Minimal pollution
- ◆ Simple cleanup
- ◆ Minimal adhesive waste
- ◆ Reduced disposal costs
- ◆ Space- and energy-savings potential

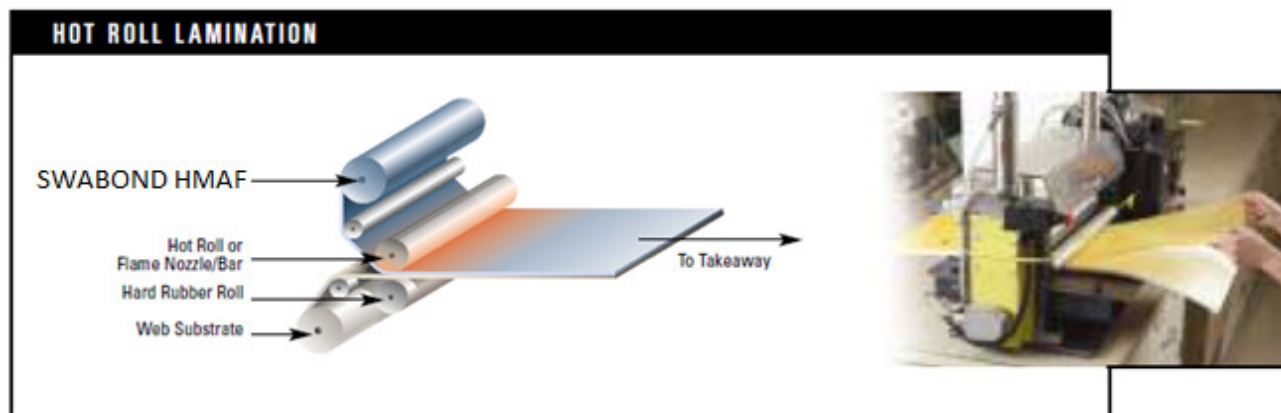


PROCESSES

SWABOND HMAF can help simplify your processes, and save time, labor and money. These films excel in the two most common adhesion processes, lamination and molding.

LAMINATION

SWABOND HMAF are well-suited to lamination processes, including hot roll, belt, flame, calendar and sheet processes. As heat activates the film adhesive, pressure bonds the film to the substrate, ensuring even adhesive distribution.



MOLDING

SWABOND HMAF can be used in both continuous and “piece” molding operations. Heat activates the adhesive, and pressure fastens the film to the substrate. A film with the right combination of properties can melt into nonwoven and other fibrous substrates, to provide adhesion and enable thermoforming into desired shapes.



SWABOND-HMAF

HOT MELT ADHESIVE FILMS

Product description

*SWABOND HMAF is the trade name for
HOT MELT adhesive films made by SWASAN.
The range currently includes films based on
COMPOUNDED HOT MELTS.*

Properties

*The SWABOND HMAF films have excellent
adhesion, high cohesion, good application
properties and outstanding mechanical
and chemical properties:*

- * resistance to washing powders and detergents*
- * non-ageing*
- * high stability to greases, oils and fuels*

*This combination of properties opens up a
wide range of applications.*

Applications

*The broad range of SWABOND HMAF hot-melt
adhesive films makes the bonding easy to
various substrates. SWABOND HMAF is mainly
suitable for production of SHOE and
FOOTWEAR components and all kinds of
FOAM LAMINATIONS / FABRIC to FABRIC
LAMINATIONS / OTHER TYPICAL REPLACEMENTS
OF LIQUID OR LATEX BASED ADHESIVES*

Other bonding applications include:

- *Home Textiles etc*
- *Medical Industry*
- *Automobile Industry*
- *Technical Bondings*

Processing

The films can be activated by:

- *Heat and pressure calendering*
- *Infra-red system*
- *Flat-bed laminating*
- *Steam Activation*
- *Ultrasonic, thermal impulse and HF welding*

Advantages to other adhesive systems

- *Thermoplastic character
(no crosslinking, no pot life limitation)*
- *Free of solvents*
- *Free of plasticizers*
- *Environmentally - friendly*
- *Exact thickness of adhesive layer*
- *Economical processing*

The information and data contained herein are believed to be correct. However, we do not warrant either expressly or by implication, the accuracy therefore.

We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. No statement in this bulletin is to be construed as violating any copyright or patent.

SWABOND-HMAF

HOT MELT ADHESIVE FILMS

Basic Material Properties Unit Method

SWABOND - HMAF

Density	g/cm3	0.98
Melting range (Kofler bench)	°C	90 - 100
Recommended glue line Temperature	°C	103 - 108
Temperature resistance	°C	At least 70
Appearance		Translucent
Resistance to plasticizer		Very good
Barrier to plasticizer		No
Washing resistance		60° C
Resistance to dry-cleaning agents		Good
HF - weldability		Very good

SWABOND – HMAF are available in Roll sizes of upto 1600 mm and in various weights ranging from 20 – 100 g/m2

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