3M

3M™ Whiteboard Film
WH-111

Product Bulletin

Product Description

White polyester film with hard coat. This communication film with whiteboard capabilities offers great versatily for interior application of office rooms, retail, schools and other private or public buildings. The use is restricted to indoor applications on flat surfaces.

Product Line	Communication film	WH-111	white, opaque, glossy, permanent adhesive (grey).

Product Characteristics

These are typical values for unprocessed products.
Contact your 3M representative for a custom specification.

Physical & Application

Material	extruded polyester	
Surface finish	glossy	
Thickness (film)	170 µm (0.170 mm)	
Adhesive type	solvent acrylic; pressure-sensitive	
Adhesive appearance	grey	
Liner	double-sided Polyethylene coated paper	
Adhesion	19N / 25mm	FTM 1: 180° peel, substrate: glass; cond: 24 h 23°C/50%RH
Application method	dry only!	
Applied shrinkage	< 0,2 mm	FTM 14
Application temperature	+12°C minimum (air and substrate)	
Service temperature	-20°C to +50°C	
Surface type	flat	
Substrate type	Flat metallic plate substrates use only	
Graphic removal	Fair to remove with heat and/or chemicals from supported substrates. No liability is given for ease or speed of removal of any graphic. Pay attention to adequate air and substrate temperature.	
Notice	For different substrates: please contact Tech Service for an adhesion test	

Warranty

This warranty does not apply to film problems caused by defective application and is given for unprocessed film only!

Indoor application	Film application in-side a building without direct exposure to sunlight
	12 years for all areas

Durability

The durability data are given for unprocessed only!

Indoor application	Film application in-side a building without direct exposure to sunlight
	>12 years; depending on frequency of use

Storage

Shelf life	- 2 years from the date on the original box - up to 2 years unprocessed, or processed within 1 year and apply within 1 year of processing
Storage conditions	+4°C to +40°C, out of sunlight, original container in clean and dry area.

Limitations of End Uses

3M specifically does **not** recommend or warrant the following uses, but please contact us to discuss your needs to recommend other products.

Graphics applied to
- exterior applications.
- other than flat surfaces.

Important Notice
- Wet application method is not recommended for this film.
- Do not stretch the film during application - performance of hard coat will be destroyed.
- White board markers with oil based ink might be difficult to be removed.
- Printing on film is not recommended.
- Image projection is possible but reflections will be present. For projection and writing capabilities, 3M offers 3MTM PWF-500 Projection Screen Whiteboard film.
- Film is not intended to use with e-cut.

Graphics Manufacturing

Application
Please consult the following 3M literature for more information about
- Surface preparation: Instruction Bulletin 5.1 'Select and Prepare Substrates for Graphic Application'
- Application methods: Instruction Bulletin 5.5 'General Procedures for Interior and exterior Dry Application'

Shipping finished graphics
Flat, or rolled film side out on 130 mm (5 inch) or larger core. These methods help to prevent the liner from wrinkling or application tape, if used, from popping off.

Notice!
After installation of the film it is necessary to wipe with sufficient pressure the entire surface with the eraser to ensure proper performance. This is needed to ensure proper wet-out and adhesion of the writtings.
Handle the film with caution as the edges are sharp! Overlaps/butt joints are possible but not recommended for full functionality. If an overlap is needed apply primer (3M primer 94) before overlapping.

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline).
Refer to Instruction Bulletin 6.5 'storage, handling, maintenance and removal of films and sheetings', for general maintenance and cleaning information.
When the film surface becomes soiled (dirt or old dried ink), wipe the surface using a soft cloth and warm water. If necessary add a mild detergent.

Notice!
Do not use permanent pens. If a permanent pen is mistakenly used, wipe off immediately with an alcohol based cleaner. This will reduce the overall performance of the film.
Writing an erasability of markings are dependent on the frequency of cleaning/erasing and overall maintenance of the film. Clean/replace the whiteboard eraser regularly.
For easiest use it is recommended to avoid having writtings standing on the board for very long periods of time.

Remarks

This bulletin provides technical information only.

Important notice
All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.
Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Additional information
Visit the web site of your local subsidiary at www.3M.eu/ArchitecturalMarkets for getting more:
- additional instruction bulletins
- a complete product overview about materials 3M is offering