

3M™ Scotchshield™ Film Roll Handling and Roll Storage Guidelines

Introduction

3M™ Scotchshield™ Film is a backside barrier film for photovoltaic solar modules. Similar to other commercially available backside films, it utilizes a fluoropolymer layer as a key component. Fluoropolymers are well known to have excellent resistance to degradation from sources such as UV, heat and moisture. Their weatherability exceeds that of non-fluorinated materials.

Scotchshield film is designed for easy use by module manufacturers. It can be used as received with most existing production equipment and cycles, with no pre-treating required. During lamination, strong, stable, bonds are formed to standard peroxide curable EVA encapsulants.

When handling Scotchshield film, care must be taken to prevent damage to the film. The purpose of these guidelines is to provide basic information to users as they develop their own process for the handling and storage of Scotchshield film. The information provided in these guidelines is general or summary in nature and is offered to assist the user. The information is not intended to replace the user's careful consideration of the unique circumstances and conditions involved in its handling and storage of Scotchshield film or to supersede any safety or site policies or procedures that a user may have. The user is responsible for determining whether the information contained in these guidelines is suitable and appropriate for the user's particular use and intended application.

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

Recommended Storage Method

- Leave Scotchshield film in its original packaging.
- Do not remove clear plastic wrapping (Fig. 1).
- After unpacking, do not place roll on flat surface, cart or pallet; this can damage the Scotchshield film roll. Keep roll suspended on lift bar or pipe.
- Unpackaged Scotchshield film roll must be horizontal at all times to prevent telescoping or end of roll damage.
- If rolls are to be converted to smaller sizes, rolls should be converted within six months from date of manufacture of Scotchshield film.



Figure 1: 3M™ Scotchshield™ Film original packaging



Suggested Roll Lifting Method

1

Unpack 3M™ Scotchshield™ Film rolls



2

Place bar through core and end box flap. Place slings on bar ends. Note: It is not recommended to lift the material by putting weight on the film. Slings should not be around the film.



3

Using hoist, lift roll from box.



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