

March, 2019

3M™ Industrial Protective Film 7070UV

Product Description

3M™ Industrial Protective Films 7070UV is an abrasion resistant, pressure sensitive adhesive backed film product designed to protect multiple industrial surfaces from damage caused by abrasion, scratching, erosion, UV and minor impacts. This rugged clear film is durable, flexible, and able to conform to curved surfaces while being easy to apply.

Product Features

- Polyurethane backing resists punctures and tearing. 7071UV is suggested for more extreme applications.
- Provided on a paper liner for ease of die cutting specific shapes.
- Easily applied with simple tools in a minimal amount of time.
- Clear color will not obscure surfaces.
- Product may be used to protect surfaces outdoors with 7070UV effective for 1 year. Conclusions based on simulated extreme environmental exposure and individual applications will vary.
- Maximum service temperature 200°F (93.3°C)
- Demonstrated no wear through with minimal visible scuff pattern after Taber abrasion testing conducted using modified ASTM D-4060 1000g weight, 1000 cycles with S-37 mounting sheet.



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Technical Information Note

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

Typical Physical Properties

Property	Values		Method
Total Tape Thickness	0.2 mm	8 mil	ASTM D3652
Backing Thickness	0.17 mm	6.5 mil	ASTM D3652
Backing	Polyurethane		
Adhesive	Acrylic		
Adhesive Thickness	0.4 mm	1.5 mil	ASTM D3652
Liner	Paper		
Water Vapor Transmission Rate	6.1 g/100 in²/24 hr		ASTM D3833

Typical Performance Characteristics

Property	Values		Method	Substrate
Peel Adhesion	5.1 N/cm	47 oz/in	ASTM D3330	Stainless Steel
Tensile Strength	119.1 N/cm	1088 oz/in	ASTM D3759	
Elongation at Break	638 %		ASTM D3759	
Liner Release	0.04 N/cm	0.39 oz/in	ASTM D3330	

Handling/Application Information

Application Techniques

- For best results, surfaces must be clean and free of dirt, debris and oils and films should be applied when surface temperature is between 50°F (10°C) and 80°F (27°C).
- Use of an application solution is suggested for easy positioning and squeegee application.
- For detailed application instructions and tips, see 3M Technical Bulletin on installation of Industrial Protective Films.

Storage and Shelf Life

Keep film in a clean area, away from excessive moisture and out of direct sunlight. Store rolls under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton. To obtain best performance, use this product within 24 months from date of manufacture.

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Information

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Trademarks

3M is a trademark of 3M Company.

Family Group

	7070UV	7071UV
Total Tape Thickness (mm)	0.2	0.36
Backing Thickness (mm)	0.17	0.31
Backing	Polyurethane	Polyurethane
Adhesive	Acrylic	Acrylic
Adhesive Thickness (mm)	0.4	0.05
Liner	Paper	Paper
Tensile Strength (N/cm)	119.1	96.6

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

