



Industrial Protective Film

7070UV & 7071UV

Technical Data

January, 2017

Product Description 3M™ Industrial Protective Films 7070UV and 7071UV are abrasion resistant, pressure sensitive adhesive backed film products designed to protect multiple industrial surfaces from damage caused by abrasion, scratching, erosion, UV and minor impacts. These rugged clear films are durable, flexible, and able to conform to curved surfaces while being easy to apply.

Product Construction	Backing	Adhesive	Liner
	Polyurethane	Acrylic	Paper

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.

	7070UV	7071UV	ASTM Test Method
Total Thickness:	8 mils (0.20 mm)	14 mils (0.36 mm)	D-3652
Backing Thickness:	6.5 mils (0.17 mm)	12 mils (0.31 mm)	D-3652
Adhesive Thickness:	1.5 mil (0.4 mm)	2 mils (0.05 mm)	D-3652
Adhesion to Steel:	47 oz/in (51 N/100 mm)	57 oz/in (63 N/100 mm)	D-3330
Tensile Strength:	72 lbs/in (1261 N/100 mm)	123 lbs/in (2163 N/100 mm)	D-3759
Elongation at Break:	638%	706%	D-3759
Liner Release:	11 g/in (0.43 N/100 mm)	11 g/in (0.43 N/100 mm)	D-3330
WVTR	6.1 gH ₂ O/100 in ² /24 hours	2.8 gH ₂ O/100 in ² /24 hours	D-3833

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 and 7071UV effective for 2 years. Conclusions based on simulated extreme environmental exposure and individual applications will vary.
- Maximum service temperature 200°F (93.3°C)
- Both films 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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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

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.

Shelf Life

To obtain best performance, use this product within 12 months from date of manufacture.

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.

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ISO 9001

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

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