Science.
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3M™ Polyurethane Protective Tape 8547-1

Temporary Protective Film

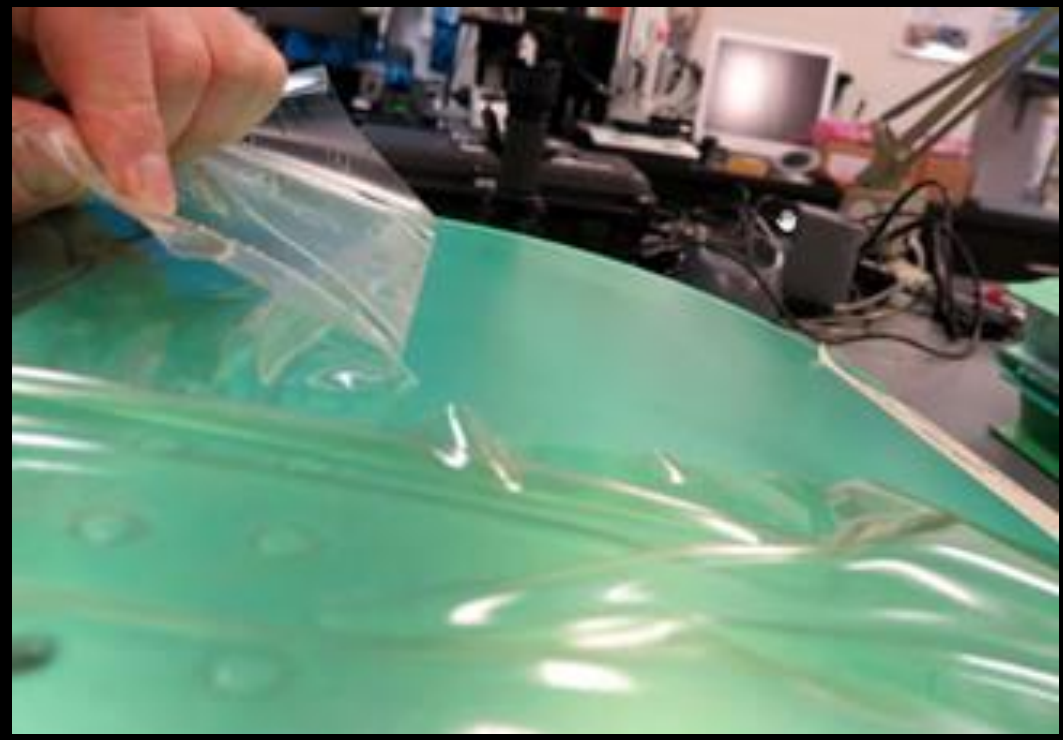
8547-1 Temporary Protective Film

A clear polyurethane tape with reduced adhesion strength for temporary protection of high-value parts

Protects against scratches and abrasions

Reduces damage from direct impacts

Non-flyaway material



8547-1 Temporary Protective Film

More durable than polyester or paper films.

Clean removal from a variety of substrates.

Clear film allows technicians to view and inspect substrate.

High conformability to wrap and protect complex shapes.

Easily trimmed to shape with common shop tools for accurate installation.

Substrate Testing & Applicability

180° Peel Adhesion (ASTM D-1000)

Peel Adhesion (oz/in) (N/100 mm)		Aging Condition			
		73 °F / 50% RH 1 week	140 °F x 95% RH 1 week (1)	180 °F 1 week (2)	Accelerated Weathering (3)
Substrate	Poly II Acrylic	12.0 (13.1)	11.2 (12.3)	16.5 (18.1)	22.7 (24.8)
	Glass	5.1 (5.6)	8.7 (9.6)	9.0 (9.9)	11.9 (13.1)
	Bare 2024-T3 Aluminum	5.8 (6.4)	4.1 (4.4)	11.2 (12.3)	12.9 (14.1)
	304 Stainless Steel	7.3 (8.0)	6.4 (7.0)	20.7 (22.7)	28.9 (31.6)
	G10 Epoxy Glass Fiber Composite	7.7 (8.4)	11.4 (12.4)	17.6 (19.3)	19.9 (21.8)
	PPG Desothane® HS CA8000 Polyurethane Topcoat	5.8 (6.4)	6.1 (6.7)	15.7 (17.2)	11.8 (12.9)
	AkzoNobel Aerodur 3002G Clear Coat	6.4 (7.0)	6.9 (7.6)	15.8 (17.3)	12.7 (13.9)
	MIL-PRF-85285 Type IV Topcoat	8.4 (9.2)	8.3 (9.1)	6.4 (7.0)	15.0 (16.4)
	MIL-PRF-23377 Primer	4.2 (4.6)	12.2 (13.3)	9.3 (10.2)	11.1 (12.2)

*Note: 8547-1 removed cleanly with no residual adhesive from all substrates after all aging conditions
(1) Samples allowed to dwell for 24 hours at 73 °F / 50% RH after removal from environmental chamber before testing
(2) Samples allowed to dwell for 1 hour at 73 °F / 50% RH after removal from oven before testing
(3) Samples exposed per ASTM G154, Cycle 1 for 168 hours then allowed to dwell for 24 hours at 73 °F / 50% RH prior to testing

BAC 5034-4 specifically calls out applicability to the following substrates

- Windows
- TPC covered aluminum
- Bare aluminum

3M tested 8547-1 for UV weathering. The film is not inherently UV resistant, but the data suggests it can be left on for 6-12 months and function properly. It will still be flexible and remove cleanly, although it may yellow over time.

8547-1 SKU Details

Description	SKU
3M™ PPT 8547-1, Configurable Size	70-2022-8213-6
3M™ PPT 8547-1, 24 in x 3 yd Sample	70-2022-8212-8
3M™ PPT 8547-1, 24 in x 36 yd	70-2022-8211-0
3M™ PPT 8547-1, 12 in x 36 yd	70-2022-8210-2

Availability

- 30 days lead time or less
- Minimum configurable size is 48” x 36 yards
  - Order in 36-yard increments.

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Thank you.

Please ensure products meet all applicable specifications, standards, maintenance manual requirements for the platform meing worked on and validate aircraft approvals against current technical documentation.

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Application Process & Tips

- **Felt squeegees** are advised (vs. our yellow plastic squeegees).
- Would **not advise** going over 24” wide – difficult to handle.
- Begin with clean, dry surface free of debris.
- If surface is wet or has condensation, dry and let sit for 30-60 minutes.
- Remove several inches of liner, tack down and apply 1-3 inches of film length at desired location.
- Do not stretch film – let it drape down under its own weight and smooth adhesive using squeegee.
- Apply squeegee at center of film and move towards both edges working out air before removing liner.
- Gradually remove liner while at the same time smoothing adhesive into the part surface, without excessive tension, working from the center of the section towards the edges.
- If large bubbles or wrinkles occur, stop applying, pull film back to bubble / wrinkle and re-apply.
- Continue process until all of the desired surface area is covered.