

3M™ Cocure Polyurethane Films

3M™ PPT 8734NA, 3M™ PPT 8730NA, 3M™ PPT 8732NA

Technical Data Sheet

Product Description

3M™ Cocure Films are a family of abrasion resistant polyurethane films used to protect composite parts from erosion damage in service. These products are specifically designed for use in composite/bonding processes, with cure temperatures up to 400°F (204°C). They can be co-cured into composite structures or can be adhesively bonded onto precured parts with appropriate structural adhesives to improve the erosion or impact resistance of the composite. These films have been formulated for optimized bonding using 3M structural adhesive films - 3M™ Scotch-Weld™ Structural Adhesive Films AF163-2 and AF191.

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. ASTM = American Society for Testing and Material. Metric values are listed in parenthesis.

A. Dimensions

	3M™ PPT 8734NA	3M™ PPT 8730NA	3M™ PPT 8732NA
Approximate Applied Thickness	0.006 inch (0.15 mm)	0.012 inch (0.30 mm)	0.024 inch (0.61 mm)
Standard Roll Length	36 yd (32.9 m)	36 yd (32.9 m)	36 yd (32.9 m)
Available Width	24 inches	24 inches or 32 inches	24 inches
Approximate Weight	0.036 lb/ft ² (174 g/m ²)	0.077 lb/ft ² (374 g/m ²)	0.146 lb/ft ² (713 g/m ²)
Available Colors	Black, 36320 Gray, 36251 Gray	Black	36320 Gray

B. Typical Physical Properties and Performance Characteristics

Property	Test Method	Units	Typical Value		
			3M™ PPT 8734NA	3M™ PPT 8730NA	3M™ PPT 8732NA
Tensile Strength @ Break	ASTM D882	lb/in (N/100 mm)	35 (613)	80 (1400)	112 (1961)
Elongation @ Break	ASTM D882	%	400	450	460
Taber Abrasion Mass Loss	ASTM C50, H18, 1 kg, 1000 cycles	g	0.02	0.03	0.02
Hardness	ASTM D2240	Shore A	83	81	84
Temperature Capability	3M Cocure Films can be used in applications with temperatures that routinely reach up to 250 °F (121 °C) and in processes with short-term exposure to temperatures up to 400 °F (204 °C).				

Shipping Information

Not regulated per U.S. DOT, IATA or IMO. Keep film in a clean area, away from excessive moisture and out of direct sunlight. Store rolls in the shipping carton. Return partially used rolls to the shipping carton. Shelf Life: Two (2) years from the date of manufacture or as expressly certified by 3M.

Authorization to Use

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

Precautionary Information

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Additional Information

In the U.S. call toll free 1-800-235-2376, or fax 1-800-435-3082 or 651-737-2171. For U.S. Military, call 1-866-556-5714. If you are outside of the U.S., please contact your nearest 3M representative.

These products are manufactured under a 3M Quality Management System registered to the AS9100 standard

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