

Material Specification Sheet**Product:**

M-689

Description:

This material features a 2.0 mil matte, topcoated silver polyester facestock with a consistent, smooth surface, great dimensional stability and endurance to varying temperatures. It is chemical, moisture, smudge and scratch resistant and has a topcoat that allows for four times as many die revolutions before retooling. The pressure-sensitive adhesive displays good tack and chemical resistance, as well as, the ability to bond with low and high surface energy substrates. The liner is great for optical sensing and most thermal transfer printers. This material is UL recognized under UL 969 File No. PGH12.MH16635.

Recommended Applications:

This material is designed for cross-technology printability via impact, laser, electron beam, wax, resin and wax/resin thermal transfer printers. This material is great for warning and instructional markings.

Physical Properties:

	<u>Value</u>	<u>Units</u>	<u>Test Method</u>
Thickness:			
Adhesive	0.8-0.9 ± 0.1	mil	ASTM D3652
Liner	3.1 ± 10 %	mil	ASTM D3652
Dimensional Stability:	No Shrinkage		24 hour dwell time on aluminum panel then 24 hours at 160°F

Adhesive:

	<u>Value</u>	<u>Units</u>	<u>Test Method</u>
Minimum Application temp:	32	°F	
Service temp:	-40 to +302	°F	
Shear:	10	hours	ASTM 3654 Method A
Tack:	320	gm/cm ²	ASTM D2979
Ultimate Peel:			
ABS	54	oz/in	ASTM D903
Acrylic	67	oz/in	ASTM D903
Acrylic Powder Paint	47	oz/in	ASTM D903
Aluminum	60	oz/in	ASTM D903
Epoxy Powder Paint	49	oz/in	ASTM D903
Fiberglass	42	oz/in	ASTM D903
Glass	55	oz/in	ASTM D903
HDPE	29	oz/in	ASTM D903
Painted Metal	52	oz/in	ASTM D903
Polycarbonate	56	oz/in	ASTM D903
Polyester	55	oz/in	ASTM D903
Polyester Powder Paint	17	oz/in	ASTM D903
Polypropylene	25	oz/in	ASTM D903
Polyurethane Powd. Paint	55	oz/in	ASTM D903
Stainless Steel	62	oz/in	ASTM D903
Styrene	50	oz/in	ASTM D903

Shelf Life:

One year, under standard storage and humidity conditions

PRODUCT DISCLAIMER

All labels and label material constructions are sold with the understanding that the purchaser has independently determined the suitability of each product for the application for which it is purchased. The seller disclaims any implied warranty of fitness of a product for a particular purpose. All materials should be tested thoroughly by the purchaser under end-user conditions to ensure they meet the requirements of a specific application.

