



Blue Steel Select® Cards

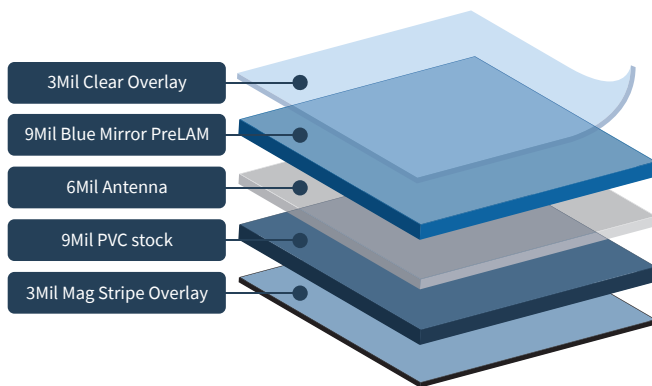
The Only Pre-LAM on the Market Without A RFID Waiver

Whether you need a new credit, debit or gift card for your company, a scan-able rewards card for your loyalty customers or a secure mag-swipe card for your gymnasium. The Griff Network can deliver you uniquely designed cards to make your business stand out. The Griff Network has created an exclusive film that is only found in our Blue Steel Select® cards, which can provide your next card state-of-the-art security and quality in a beautifully elegant design. Contact us today to find out more on how we can tackle your business's biggest challenges!



A One-of-a-Kind Card with a Construction That's Made to Last...

The Griff Network's patented **Blue Mirror Film** is the premier dual interface core that provides a printable surface for any manufacturer of credit cards or gift cards. Our Pre-LAM's offer superior bond strength and flatness. Our cores come **print-ready** and meet all **Mastercard** specifications for dual interface cores. Finished cards using our material will pass ISO 10373 requirements for Integrated Circuit and Proximity Cards. In addition, **Blue Mirror Film's** minimal interference while embedded with antennas and circuits makes it perfect for use in dual interface cards. Furthermore, if **Blue Mirror Film** is not required, Griff's original **Silver Mirror Pre-LAM** is also available which offers an even higher degree of reflection.



Applied Applications

- Credit or Debit Cards
- Contact-less/ RFID Cards
- Gift Cards
- ID Cards
- Security or Access Cards
- Membership or Rewards Cards

Standard Sheet Properties

- 9mil and 13mil sheet thicknesses available
- Sheet sizes up to 24" wide and cut to length
- A milky silver pre-lamination with no visible wrinkles or bubbles
- Can be printed using standard or UV cured inks
- Any custom color can be made upon request for PVC stock layer

Blue Steel Select® Benefits

- **The only Pre-LAM on the market that doesn't have an RFID Waiver**
- The strongest bond construction in the industry, reducing delamination waste up to 40%
- Print-ready - no required pretreatment
- One pass silkscreen process can eliminate silkscreen bottlenecking
- Our Pre-LAM does not require a matched "B" lamination side
- Measurable cost savings through waste reduction and production improvements

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. The values given reflect average material characteristics and may vary slightly between base suppliers. Users should evaluate the material to determine the suitability for their own particular application. Base on terms and conditions Seller's only obligation shall be to replace such quantity of the product proven to be defective. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use, or inability to use the product for his/her use, and the user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed, except by an agreement signed by an officer or seller. We hereby certify that goods covered by this quotation have been produced in compliance with the Fair Labor Standards Act of 1983, as amended. Any credit memos to purchaser shall expire if not used within one year from date of credit memo.

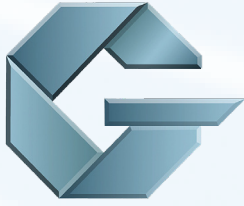
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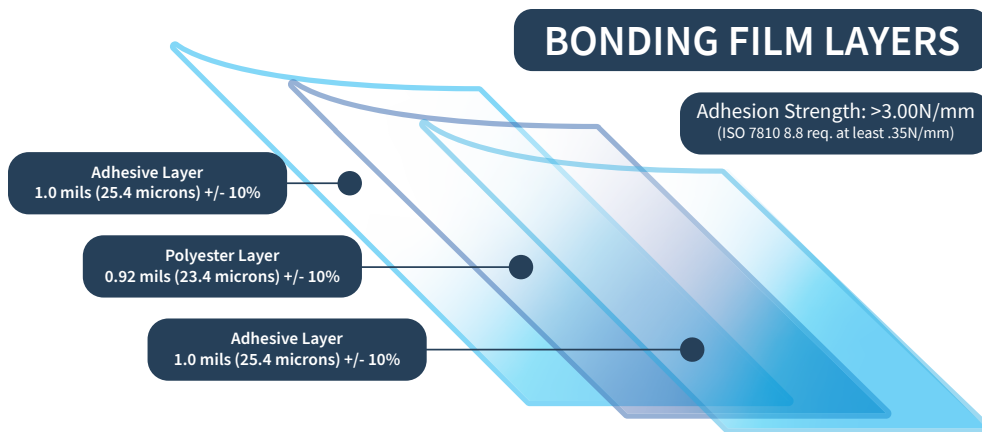
“MC Series” Bonding Films

A Strong, Lightweight Solution to Material Adhesion

Griff is a leading manufacturer and supplier of best in class adhesive Bonding Films to companies both nationally and internationally. Our Bonding Films offer reliable stability and adhesion to a countless variety of plastics and metals. These films are constructed by layering a durable, lightweight polyester film between two adhesive films creating a stable bond while still maintaining full transparency. Furthermore, these multi-purpose films can be created in a variety of thicknesses for the metal and transaction card manufacturing industry plus many more. Contact one of our representatives today to find out how The Griff Network can customize a solution for your needs.

Applied Applications:

- Credit or Debit Cards
- Contact-less/ RFID Cards
- Gift Cards
- ID Cards
- Security or Access Cards
- Membership or Rewards Cards



Standard Properties:

- Available in Transparent and Non-Transparent Films
- Adhesion strength: >3.00N/mm
- Core Thickness Available:
0.48mil (12um) - 3.0mil (75um)
- Adhesive Thickness available:
0.75mil (19um) - 2.0mil (50um)
- Total Weight: 81gsm
- Yield: 8,640 inches²/lb
- Shelf Life: Six Months
- Melting Point: 428° F

Properties based on the standard 92g PET core coated two-sided product

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BLUE STEEL SELECT® CARD

PRODUCT TESTING

Q-CARD completed testing of cards received on August 22, 2017, against an order for one (1) test. The cards were received in new condition. Cards were labeled and identified for each test by the customer. All of the data in this test report pertains to the tests that were ordered.

Test No. 1 CARD TESTING FOR ESD CONDUCTIVITY*

Per MasterCard CQM 2.16, Section 10.1.10 (R-L1-04-1 #3050#); & TM-425, TM-426

Card ID #	Percent (%) of Full Discharge
Card 1	Pass
Card 2	Pass
Card 3	Pass
Card 4	Pass
Card 5	Pass

*This test is not covered by our current A2LA accreditation. Any opinions/interpretations expressed in relation to this test within this report are outside the scope of our A2LA accreditation.

CARD ESD QUANTITATIVE CONDUCTIVITY TESTING (CQM 2.15)

SAMPLED BY: Customer
OF SAMPLES TESTED: 5
TECHNICIAN: CNJ
TIME: 9:17A.M.
DATE: 8/28/2017
TEMPERATURE: 21.2
RELATIVE HUMIDITY: 47%
SAMPLED PRECONDITIONED: ___x___

Requirement: The card holder device (CHD) shall not conduct more than 10% of the energy of an electrostatic discharge ("ESD") at 8kV into a terminal

LeCroy DSO Cal. Verified ___x___ Valid Until: Aug. 2018
Current Probe Cal. Verified ___x___ Valid Until: Mar. 2018
Teseq ESD Simulator ___x___ Valid Until: Mar. 2019

Card ID #	Scenario	D1 ESD	D2 GND	Bottom	Open Test Q0%	Short Test Q100%	Card Test Qn	% of Full Discharge
Card 1	1	L	R	Ft	-41.6	1217.1	-31.1	1%
	2	T	B	Ft	-61.2	1217.8	-53.5	1%
	3	L	CR	Ft	-96.6	1208.4	-24.9	5%
	4	B	CL,CR	Bk	-70.0	1220.8	-19.8	4%
Card 2	1	L	R	Ft	-93.6	1202.4	-65.1	2%
	2	T	B	Ft	-84.4	1191.2	-49.6	3%
	3	L	CR	Ft	-94.1	1219.3	-30.6	5%
	4	B	CL,CR	Bk	-75.3	1205.6	-16.6	5%
Card 3	1	L	R	Ft	-81.3	1219.2	-65.2	1%
	2	T	B	Ft	-68.1	1217.2	-47.3	2%
	3	L	CR	Ft	-95.6	1210.6	-40.3	4%
	4	B	CL,CR	Bk	-70.1	1206.8	-15.1	4%
Card 4	1	L	R	Ft	-76.1	1195.9	-64.2	1%
	2	T	B	Ft	-68.8	1198.8	-45.6	2%
	3	L	CR	Ft	-77.6	1190.0	-39.1	3%
	4	B	CL,CR	Bk	-72.0	1219.5	-8.5	5%
Card 5	1	L	R	Ft	-78.0	1211.1	-53.0	2%
	2	T	B	Ft	-80.5	1197.1	-11.5	5%
	3	L	CR	Ft	-90.3	1191.3	-29.7	5%
	4	B	CL,CR	Bk	-68.1	1204.5	-23.6	3%

Job Notes:

- The ESD test is conducted in the test apparatus proposed as test method 1 in working draft of ISO/IEC 10373-1 (Annex A)
- The test voltage used is +8Kv in contact mode
- The current to ground is integrated in the DSO then Qn is calculated

CARD TESTING FOR PEEL STRENGTH (ISO 7810, 8.8)

SAMPLED BY: Customer

Expanded Uncertainty: +/- 2.81%

OF SAMPLES TESTED: 6

TECHNICIAN: ADV

(Coverage factor k=2, approximate 95% confidence level)

TIME: 7:30A.M.

DATE: 5/3/2017

TEMPERATURE: 21.8

RELATIVE HUMIDITY: 46%

CALIBRATION VERIFIED: x Valid Until: 7/13/17

SAMPLES PRECONDITIONED: x

HIGH-RESOLUTION IMAGES: n/a

Card ID #	P1	P2	P3	P4	Side Front/Back
	Minimum Peel Force				
	.35N/mm	.35N/mm	.35N/mm	.35N/mm	
Card IPS01	1.39	2.20	2.78	2.63	Front/Right
Card IPS02	3.03	2.74	2.63	2.76	Front/Right
Card IPS03	2.56	2.68	2.26	2.17	Front/Right
Card IPS04	2.43	2.05	1.98	2.23	Front/Left
Card IPS05	2.78	3.01	2.95	2.75	Front/Left
Card IPS06	2.75	1.28	2.84	1.36	Front/Left

Job Notes:

- IPS02-1 - Tape broke midway
- IPS02-2 - Tape broke at the start
- IPS04-1 - Tape broke midway
- IPS05-1 - Strip tore at the start

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