

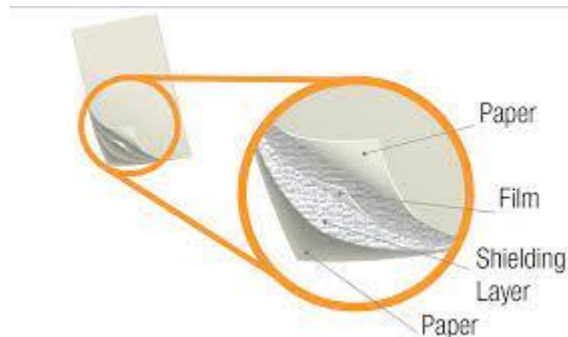


RFID SHIELDING - METAL DETECTABLE

PaperTyger RFID is a multi-ply laminate that contains a security barrier to prevent RFID detection at 13.56MHz and in the 860-980MHz range. This product is designed to be easily fabricated into envelopes, sleeves or inserts used to protect RFID contactless smart cards and GEN2 credentials from unauthorized access during transportation, mailing or storage.

PaperTyger RFID products offer light weight, water resistance, durability and the superior printing and converting benefits of the traditional PaperTyger line of products by Chase Corporation.

The shielding layer creates a barrier that impedes communication from a reader.



APPLICATIONS:

- Credit / Debit card sleeves
- Passport sleeves
- ID cards
- Security cards
- Envelopes
- Activation labels
- Metal detectable tags
- Wallet, clutch bags & luggage lining
- Other applications that require RFID blocking materials

PaperTyger RFID meets FIPS 201 requirements. Testing by independent laboratories using IEEE Method 299 proves effective shielding at various HF and UHF frequencies.



PaperTyger RFID SHIELD

PRODUCT DATA SHEET

Property	Metric	Imperial	Test Method
Basis Weight*	120gsm	32 #	T-410
Thickness	105um	4.2 mils	T-411
Tensile (MD)	9.4kn/m	55 lbf/in	T-494
Tensile (CD)	6.3kn/m	37 lbf/in	T-494
Smoothness	80 Sheffield units	80 Sheffield units	T-538
Opacity	100%	100%	T-425
Laminate Adhesion	4	4	T-539

*writing & printing basis: 17" x 22" - 500 sheets per ream (1298.6 ft²)

Shielding Effectiveness of PaperTyger RFID SHIELD

Property	Result	Method
• RF Attenuation @ 13.56 MHz (db)	43	IEEE 299
• RF Attenuation @ 13.56 MHz (linear)	141.25 : 1	IEEE 299
• Internal Skim Test (13.56 MHz RF Reader)	PASS	Chase TP# 606

Testing By: MET Laboratories Baltimore, MD 21230

Shielding Effectiveness of PaperTyger RFID SHIELD at 13.56 MHz

Property	Result	Method
• RF Attenuation @ 860 MHz (db)	49	IEEE 299
• RF Attenuation @ 870 MHz (db)	40	IEEE 299
• RF Attenuation @ 880 MHz (db)	49	IEEE 299
• RF Attenuation @ 890 MHz (db)	51	IEEE 299
• RF Attenuation @ 900 MHz (db)	45	IEEE 299
• RF Attenuation @ 910 MHz (db)	57	IEEE 299
• RF Attenuation @ 920 MHz (db)	47	IEEE 299
• RF Attenuation @ 930 MHz (db)	44	IEEE 299
• RF Attenuation @ 940 MHz (db)	49	IEEE 299
• RF Attenuation @ 950 MHz (db)	52	IEEE 299
• RF Attenuation @ 956 MHz (db)	53	IEEE 299
• RF Attenuation @ 960 MHz (db)	47	IEEE 299
• RF Attenuation @ 980 MHz (db)	61	IEEE 299

Testing By: Trace Laboratories, Inc. Palatine, IL. 60067