





### ECOCARDNOLOGY

# Water Resistant

885

Materials Thickness			
Front Paper	$255~\mu m \pm 15~\mu m$		
Rear Paper	$255  \mu m \pm 15  \mu m$		
Glue	$20~\mu m \pm 10~\mu m$		
Inlay	100 μm		
Compensation Layer	$255~\mu m \pm 15~\mu m$		
TOTAL	885 μm ± 55 μm		

# **Card Composition**



### **Card Characteristics**

100% plastic free hardened paper card with image durability and electronic data retention up to 2 years (handling and storage conditions, as per datasheet, have to be observed)

- Features:
- 1. Best in class contactless performance
- 2. High water and scratch resistance
- 3. Premium design and security excellence

## **Paper Characteristics**

Physical Properties	Value	Unit T	est Method
Base Weight	231 ± 15	g/sqm	ISO 536
Caliper	255 ± 15	micron	ISO 534
Smoothness (Bekk)	> 300	sec	ISO 5627
Brightness (R 457)	$94 \pm 4$	%	ISO 2469
Tensile Strength (md)	$200 \pm 15$	N/15mm	ISO 1924/1
Tensile Strength (cd)	$130 \pm 10$	N/15mm	ISO 1924/1
Opacity	98 ± 2	%	ISO 2471

#### Compliance with international standards







FSC paper only, ensuring that paper product can be used for sustainable market.

Paper layers comply with REACH and ROHS directive, supporting the aim to improve the protection of human health and the environment concerning chemical substances.

### Physical and electrical characteristics

Operating frequency 13.56 MHz
RF Standard ISO14443 (up to level 3)
Operating temperature -25 to +70 °C
Storage temperature +18 to +28 °C
Data retention 10 years
Write endurance  $10^5$  cycles
Theoretical Reading Distance 85 mm  $\pm$  5 mm

# Inlay & ICs

### Available with ICs:

MIFARE® Ultralight® EV1 MIFARE® Ultralight® C MIFARE® Classic 1K MIFARE® DESFire® Light

Inlay Composition			
Тор	Aluminium	30 μm	
Support	Paper	60 µm	
Bottom	Aluminium	10 μm	

#### **CARDNOLOGY SRL**