

CLEAR MATTE (CM)

(5 YEAR WARRANTY)

1. Structure

Protective Film
Coating
Base Film/Urethane
PSA Glue
Liner



2. Spec data

2.1. Appearance performance

Item	Paint Protection Film		
Function	Paint protection		
Type	Clear Matte (CM)		Test Method
Liner bubbles	visually invisible		visual test
Dust	visually invisible		visual test
Crystal points	0.1-0.6mm	allowed	visual test
	0.7-2.9mm	<10	
	≥3.0mm	1 max	
Coated dump	visually invisible		visual test
Glue line	visually invisible		visual test

Test method description:

Coated dumb strips

after removing the HC protective film, check the surface of the sample with natural vision;

For crystal points

Take the most dense area of sampled crystal points as the measuring area, and take

12.7cm*12.7 cm is the counting interval for size and quantity evaluation

2.2. Physical performance

Item	Paint Protection Film	
Type	Clear Matte (CM)	Test Mothod
Gloss (60°)	≥ 90 (%)	GB 8807
G weight(Finshed)	345~385 (g/m2)	GB/T 4669
G weight (Glue)	30~35 (g/m2)	
Product Thickness	180+ -15um (um)	GB/T 7125
Layer Thickness	43~49 (um)	
Coating Thickness	13-15(um)	
Urethane Thickness	140~170 (um)	
Glue Thickness	23-28 (um)	
Liner thickness	75~85 (um)	
Elongation at break	≥ 120 (%)	GB/T 1040.1
Shrinkage (MD)	≤ 0.5 (mm)	FTM 14
Shrinkage (TD)	≤ 0.4 (mm)	
Release force	≤ 0.35 (N/25mm)	GB/T 2792
Tack	≥ 12 (N/25mm)	FTM 9
24h, 180°Peel	≥ 21 (N/25mm)	GB/T 2792

Test method description:

Elongation at break of finished products, according to "GB/T 1040.1 Determination of Tensile Properties of Plastics Part 1 General Rules", record the elongation at break value of finished products when the HC coating breaks in the tensile test.

2.3. Characteristic

Type	Clear Matte (CM)	Test Mothod
Self Healing Function	Heat	(0.1mm) Brush&Hot
Water contact angle	$\leq 100^\circ$	DL/T864
Anti acid	oxalate 72 (Pass)	Lab test
Yellowness Index	≤ 2	QUV
Anti-fouling	Strongest Marker (PASS)	Lab test