

KOREVA

PET MDF TEST REPORT

1. MDF TEST

NO.	TESTED ITEM	REQUIREMENT	UNIT	TEST RESULT	VERDICT
1	Dimensional (length width thickness)	Thickness +/-0.2mm Length/width +/-2mm	Mm	1220*2800*18	PASSED
2	Density	730	Kg/m ³	740	PASSED
3	Water Content Ratio	%	3~13	5.4	PASSED
4	Swelling Rate after 24h in Water	≤9	%	6.4	PASSED
5	Moudules of Rupture	≥24	MPa	24.00	PASSED
6	Moudules of Elasticity	≥2300	MPa	2545	PASSED
7	Internal Bond Strength	≥1	N/mm ²	1.02	PASSED
8	Surface Bond Strength	≥1.2	N/mm ²	1.50	PASSED
9	Formaldehyde Emission	≤8 (E1)	Mg/100g	6.50	PASSED
10	Appearance Quality	Fracture marks, cracks, Glue spots Oil pollution		No	PASSED

Remark: E1 GRADE MDF MR

2. PET-G TEST

NO.	PROPERTY	REQUIREMENT	STANDARD	RESULT	VERDICT
1	Tear resistant (adherence)	≥45knm	QB/T 1130-1991	Cross wise AVE 150, Length wise AVE 210	PASSED
2	Tensil strength	≥16mpa	GB/T 1040.1-2018,GB/T 1040.3-2006	Cross wise AVE 62.3, Length wise AVE 62.3	PASSED
3	Stain resistance	Grade 5 is best, grade 1 is worst	GB/T17657	(Acetone, Coffee,25% Sodium hydroxide, 30% Hydrogen	PASSED
4	Surface wetting tension	≥38mN/m	GB/T 22638.4-2016 customer requirement	Time (dispersing from continuous film to droplet)>2s, Surface	PASSED
5	UV aging test	ΔE*ab<3	GB/T 23987-2009 Method A	SCI 1.38 SCI 1.53	PASSED

6	Resistance to heat aging	There should be no abnormality on the specimen surface	QB/T 5140-2017	No anomalies were observed on the surface of the sample	PASSED
7	Pencil hardness	≥HB	GB/T 6739-2022	H	PASSED
8	Measurement tolerance	≤0.3 %	By customer requirement	Horizontal AVE -9.34, Vertical AVE -2.22	PASSED
9	Alternating test (65+2)°C,2h-(20+2)°C,2h, 30s to complete the exchange	Wrinkling can be seen, no discoloration, no loss of light, no blistering, no cracking	GB/T 17657-2022	Wrinkling can be seen, no discoloration, no loss of light, no blistering, no cracking	PASSED
10	Food-grade test	≤0.04 mg/kg	GB 4806.7-2016 GB 4806.7-2013	Antimony (Sb) 0.01	PASSED
		≤7.5 mg/kg		Terephthalic acid 0.2	
		≤10 mg/dm2		Overall migration 3.0	
		≤10 mg/kg		Potassium permanganate 2.2	
		/		Ethylene glycol 3.0	
		/		Diethylene glycol 3.0	
		≤30 mg/kg		Ethylene glycol, Diethylene glycol (expressed as 1,2-	
		Normal color and luster, no foreign smell, no impurity		Sense	
		No sensory deterioration such as turbidity, sedimentation or odor		Immersion solution	

Testing date: September 2024