



Evaluation Report

Origin Eason Paint Co.,Ltd.

312 Soi Paholyotin 32, Chankrasem, Chatuchak, Bangkok 10900

Tel: + 66-2-941-7567-8, Fax: + 66-2-941-6493 +66-2-579-8043

GENERAL INFORMATION

CLIENT : TCT Co., Ltd	
PRODUCT NAME : TEST FAST OVEN	
STANDARD METHOD : TOYOTA ENGINEERING STANDARD	
TYPE OF STANDARD TEST : TSH 3130G	OEP No./Lot No. : -
APPLICATION: INTERIOR	ERF NO. : 1906115
SUBSTRATE : PC/ABS	MODEL : -
<input checked="" type="checkbox"/> CUSTOMER PART <input type="checkbox"/> CUSTOMER PLATE <input type="checkbox"/> OEP PLATE	

REMARK

CUSTOMER REQUESTSITION	CONDITION TEST		
1. TCT TEST FOR FAST OVEN (NEW TECHNOLOGY)	PAIN	BAKING (MINS)	
2. PART TRIAL ON Jun 20, 2019	ET SS CLEAR	10	20 30
3. TEST (ADHESION, HARDNESS, AND TACK FREE = PRINT RESISTANCE)	ET SS GL30	10	20 30
	ET SS GL10	10	20 30
4. JUST INITIAL TEST	CF-100 GL10	10	20 30
	EB BLACK	10	20 30

RESULT TESTING

* T/S = Test Specimen

No.	ITEMS	CONDITION	CRITERIA	RESULT	JUDGEMENT	T/S*
1	<u>ADHESION</u>					
1.1	ET SS CLEAR					
1.1.1	BAKING 10 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.1.2	BAKING 20 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.1.3	BAKING 30 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.2	ET SS GL30					
1.2.1	BAKING 10 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.2.2	BAKING 20 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.2.3	BAKING 30 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.3	ET SS GL10					
1.3.1	BAKING 10 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.3.2	BAKING 20 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.3.3	BAKING 30 MINS	Standard cross-hatch tape test 1 mm.	0/100	NO SAMPLE PART FROM TCT.		

1.4	CF-100 GL10					
1.4.1	BAKING 10 MINS	Standard cross-hatch tape test 1 mm.	0/100	Found the peeling of coated surface	NG	PART
1.4.2	BAKING 20 MINS	Standard cross-hatch tape test 1 mm.	0/100	Found the peeling of coated surface	NG	PART
1.4.3	BAKING 30 MINS	Standard cross-hatch tape test 1 mm.	0/100	Found the peeling of coated surface	NG	PART
1.5	EB BLACK					
1.5.1	BAKING 10 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.5.2	BAKING 20 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
1.5.3	BAKING 30 MINS	Standard cross-hatch tape test 1 mm.	0/100	0/100	PASS	PART
2	<u>HARDNESS</u>					
2.1	ET SS CLEAR					
2.1.1	BAKING 10 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.1.2	BAKING 20 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.1.3	BAKING 30 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.2	ET SS GL30					
2.2.1	BAKING 10 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.2.2	BAKING 20 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.2.3	BAKING 30 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.3	ET SS GL10					
2.3.1	BAKING 10 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.3.2	BAKING 20 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.3.3	BAKING 30 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	NO SAMPLE PART FROM TCT.		
2.4	CF-100 GL10					
2.4.1	BAKING 10 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART

2.4.2	BAKING 20 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.4.3	BAKING 30 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.5	EB BLACK					
2.5.1	BAKING 10 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.5.2	BAKING 20 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
2.5.3	BAKING 30 MINS	PENCIL MITSUBISHI UNI.	≥ HB ; If the material hardness is B or softer, the coating hardness shall be the same or harder than the material.	HB	PASS	PART
3	<u>THICKNESS</u>					
3.1	ET SS CLEAR					
3.1.1	BAKING 10 MINS	Measure thickness		≈ 32 μm	-	PART
3.1.2	BAKING 20 MINS	Measure thickness		≈ 28 μm	-	PART
3.1.3	BAKING 30 MINS	Measure thickness		≈ 25 μm	-	PART
3.2	ET SS GL30					
3.2.1	BAKING 10 MINS	Measure thickness		≈ 33 μm	-	PART
3.2.2	BAKING 20 MINS	Measure thickness		≈ 32 μm	-	PART
3.2.3	BAKING 30 MINS	Measure thickness		≈ 29 μm	-	PART
3.3	ET SS GL10					
3.3.1	BAKING 10 MINS	Measure thickness		≈ 33 μm	-	PART
3.3.2	BAKING 20 MINS	Measure thickness		≈ 32 μm	-	PART
3.3.3	BAKING 30 MINS	Measure thickness		NO SAMPLE PART FROM TCT.		
3.4	CF-100 GL10					
3.4.1	BAKING 10 MINS	Measure thickness		≈ 32 μm	-	PART
3.4.2	BAKING 20 MINS	Measure thickness		≈ 33 μm	-	PART
3.4.3	BAKING 30 MINS	Measure thickness		≈ 30 μm	-	PART
3.5	EB BLACK					
3.5.1	BAKING 10 MINS	Measure thickness		≈ 29 μm	-	PART
3.5.2	BAKING 20 MINS	Measure thickness		≈ 32 μm	-	PART
3.5.3	BAKING 30 MINS	Measure thickness		≈ 33 μm	-	PART
4	<u>PRINT RESISTANCE</u>					
4.1	ET SS CLEAR					
4.1.1	BAKING 10 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No conspicuous of cloth mark	PASS	PART

4.1.2	BAKING 20 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No conspicuous of cloth mark	PASS	PART
4.1.3	BAKING 30 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No conspicuous of cloth mark	PASS	PART
4.2	ET SS GL30					
4.2.1	BAKING 10 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.2.2	BAKING 20 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.2.3	BAKING 30 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.3	ET SS GL10					
4.3.1	BAKING 10 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.3.2	BAKING 20 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.3.3	BAKING 30 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	NO SAMPLE PART FROM TCT.		
4.4	CF-100 GL10					
4.4.1	BAKING 10 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.4.2	BAKING 20 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.4.3	BAKING 30 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No cloth mark on coated surface	PASS	PART
4.5	EB BLACK					
4.5.1	BAKING 10 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No conspicuous of cloth mark	PASS	PART
4.5.2	BAKING 20 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No conspicuous of cloth mark	PASS	PART
4.5.3	BAKING 30 MINS	500 g, 70 °C * 2 hrs.	No conspicuous of cloth mark	No conspicuous of cloth mark	PASS	PART

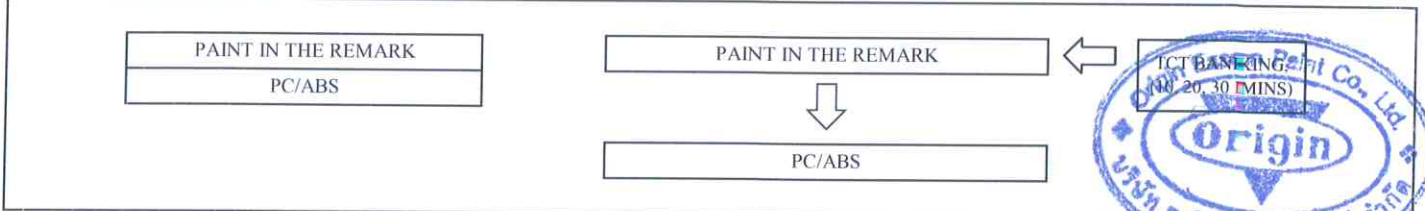
SPRAY CONDITION

1C1B 2C1B 2C2B OTHER TCT

LOCATION : CUSTOMER OEP

LAYER #1	PAINT : _____	PAINT IN THE REMARK _____	OEP No./Lot. No.: _____
DRYING CONDITION	TCT °C	10, 20, 30 min	
FILM THICKNESS	- μm		
LAYER #2	PAINT : _____	_____	OEP No./Lot. No.: _____
DRYING CONDITION	- °C	- min	
FILM THICKNESS	- μm		
LAYER #3	PAINT : _____	_____	OEP No./Lot. No.: _____
DRYING CONDITION	- °C	- min	
FILM THICKNESS	- μm		

PAINT PROCESS



Reported Date: Jun 28, 2019

Tested By	Checked By	Approved By
