

LAB LOCATION:
REPORT NUMBER:
VIET NAM
EFFN25080876-CG-01
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Applicant:	CÔNG TY TNHH SX TM HOÁ KEO BÌNH THẠNH		
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Copy To:	-		

OVERALL RATING

PASS	X
FAIL	-
DATA	-

Sample Information

Sample Description	1/ TVT WHITE		
Material Type	-		
Style Number	-		
End uses	-		
Characteristic/ Material type	-		
SKU	-		
Order Number	-		
Quantity	-	PO Number	-
Buyer's Name	-	Manufacturer	-
Country of Origin	-	Country of Destination	-
Code Number	-	Phase of production	-
Reference item/ style number	-	Color	-
Date of Submission	Aug. 13, 2025	Test Performance Dates	Aug. 13, 2025

Testing Status

Pre-Shipment Lead Test	☐	Test For Protocol	-
Retest	☐	Previous Report No.:	-

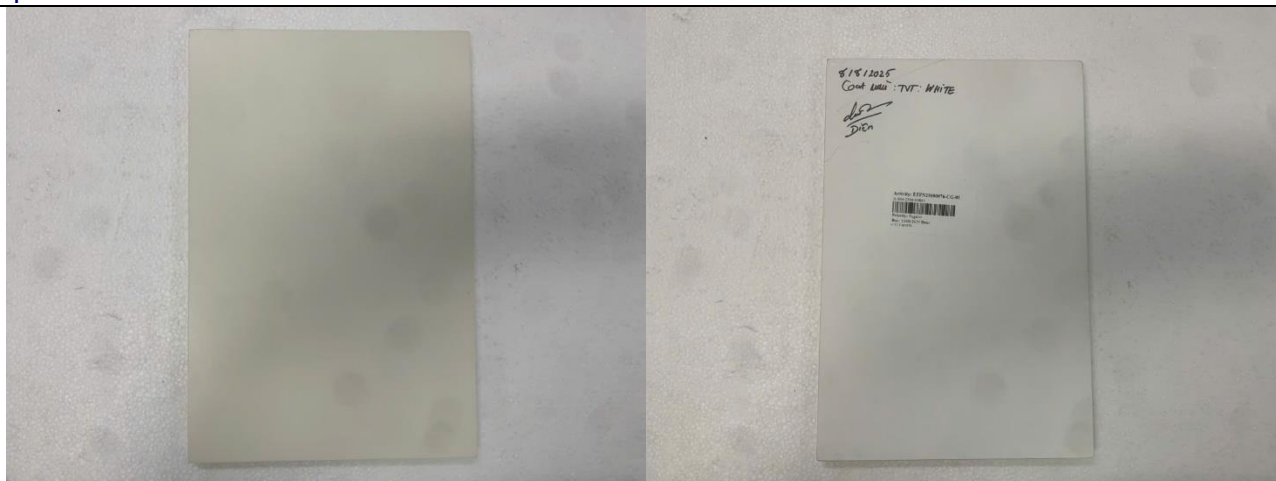
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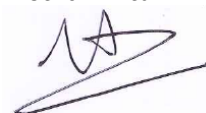
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Sample Photos



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For and on behalf of
**Eurofins MTS Consumer Product Testing
Vietnam Ltd.**



HARRY VU
HARDLINES LAB. ASSISTANT MANAGER

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Test Property	PASS	FAIL	DATA	COMMENTS
Coatings Adhesion test	-	-	X	-
UV Exposure to Laboratory Light Sources	X	-	-	-
Phenolic Yellowing	-	-	X	-

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TEST RESULT:

1. Coatings Adhesion test

TEST ITEM	TEST METHOD	TEST REQUIREMENT	RESULT
Coatings Adhesion test.	ASTM D3359-23	Use a suitable blade to cut the sample according to Hatch-Cut method or X-Cut method to obtain the grid. (Test method depends on coating thickness and surface flatness.) Use masking tape applied to grid and remove to see if plating/finish remains intact Coated items (plating, paint, powder coating, or other surface finish) shall be rated per the scale specified in the standard when tested as appropriate. Cut coating as specified, apply tape to cuts, then remove tape and examine for removal of coating from substrate. Photograph if any plating / finish is removed. Select cutting method as follows: - Use X-cut method for all coatings on non-flat surfaces, and all coatings over 5 mils (125 µm) thick. - Use 6-tooth hatch-cut method for all coatings from 2 mils (50 µm) to 5 mils thick on flat surfaces and the cutting distance should be 2mm. - Use 11-tooth hatch-cut method for coatings up to 2 mils thick on flat surfaces and the cutting distance should be 1mm	Data Grade: 4B (See exhibit photos)

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2. UV Exposure to Laboratory Light Sources

Conclusion: PASS

Methods of Exposure to Laboratory Light Sources - Fluorescent UV lamps - Method A Cycle 1

Test Method and Requirement:

TEST ITEM	TEST METHOD	REQUIREMENT	RESULT
UV Exposure test – Methods of Exposure to Laboratory Light Sources - Fluorescent UV lamps	ISO 4892- 3:216 Method A - Cycle 1	Report result after 48 hours of exposure sample to the following condition: - 8 hours dry, UVA-340 (type 1A) at 60±3 °C; - 4 hours condensation at 50±3 °C. The changes in colour after exposure shall be determined as specified in ISO 4582: - Grey Scale (ISO 105-A02/ ISO 105-A03) for assessing change in colour: Minimum Grade 4. - Delta E color measurement using spectrophotometer.	Pass See Test Results (See exhibit photos)
Grey Scale (ISO 105-A02/ ISO 105-A03):			
Fastness	CIELAB difference (ΔE)	Tolerance	
5	0	0.2	
(4-5)	2.2	± 0.3	
4	4.3	± 0.3	
(3-4)	6.0	± 0.4	
3	8.5	± 0.5	
(2-3)	12.0	± 0.7	
2	16.9	± 1.0	
(1-2)	24.0	± 1.5	
1	34.1	± 2.0	

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Test Results:

Specimens description	Visual assessment	Instrumental measurement			Change in colour
			Before	After	
Sample 1	<i>Hue changes:</i> ☒ more green ☐ less green more red ☐ less red more yellow ☐ less yellow <i>Saturation changes:</i> ☒ less intense ☐ more intense <i>Changes in lightness:</i> ☐ lighter ☒ darker	L =	89.15	89.13	Pass Grade: 5
		a =	0.46	0.42	
		b =	11.10	11.22	
		ΔL =	-0.020		
		Δa =	-0.040		
		Δb =	0.120		
		ΔE =	0.128		

Specimens description	Visual assessment	Instrumental measurement			Change in colour
			Before	After	
Sample 2	<i>Hue changes:</i> ☒ more green ☐ less green more red ☐ less red more yellow ☐ less yellow <i>Saturation changes:</i> ☒ less intense ☐ more intense <i>Changes in lightness:</i> ☐ lighter ☒ darker	L =	89.13	89.05	Pass Grade: 4-5
		a =	0.53	0.40	
		b =	10.96	11.18	
		Δ L =	-0.080		
		Δ a =	-0.130		
		Δ b =	0.220		
		Δ E =	0.268		

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Specimens description	Visual assessment	Instrumental measurement			Change in colour
			Before	After	
Sample 3	<i>Hue changes:</i> ☒ more green ☐ less green more red ☐ less red more yellow ☐ less yellow <i>Saturation changes:</i> ☒ less intense ☐ more intense <i>Changes in lightness:</i> ☐ lighter ☒ darker	L =	89.11	89.04	Pass Grade: 4-5
		a =	0.58	0.42	
		b =	10.91	11.10	
		ΔL =	-0.070		
		Δa =	-0.160		
		Δb =	0.190		
		ΔE =	0.258		

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ISO grey scale

	Result
Color Staining:	4-5 /

COLORFASTNESS RATING:

Grade 5	Negligible/No Change Or Staining
Grade 4	Slight Change Or Staining
Grade 3	Moderate Change Or Staining
Grade 2	Severe Change Or Staining
Grade 1	Complete Change Or Staining

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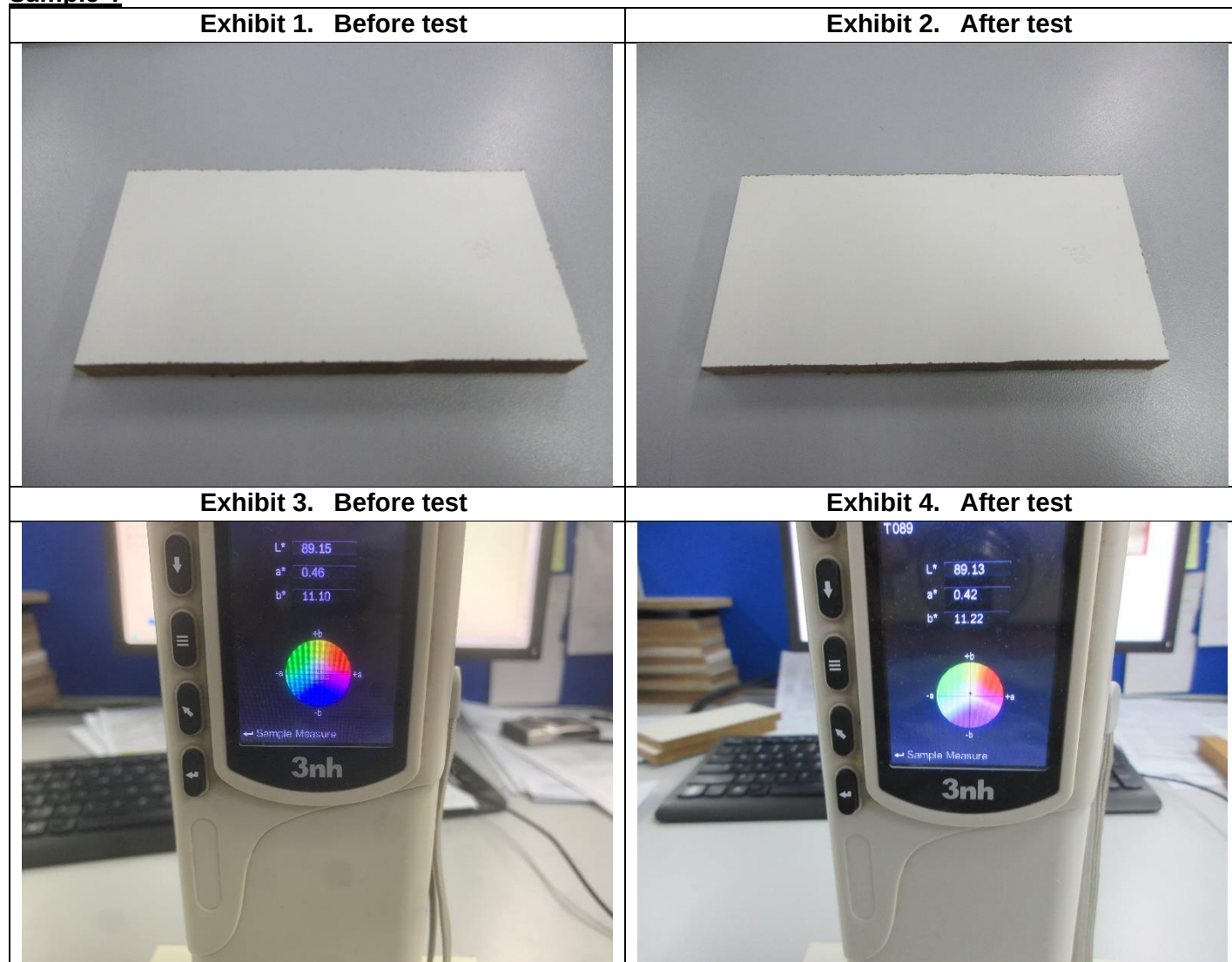
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EXHIBIT(S):

**UV Exposure test
Sample 1**



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Sample 2

Exhibit 5. Before test

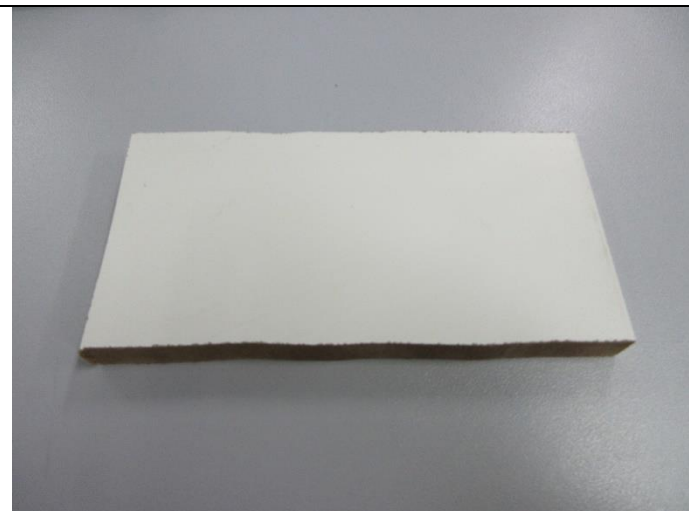


Exhibit 6. After test

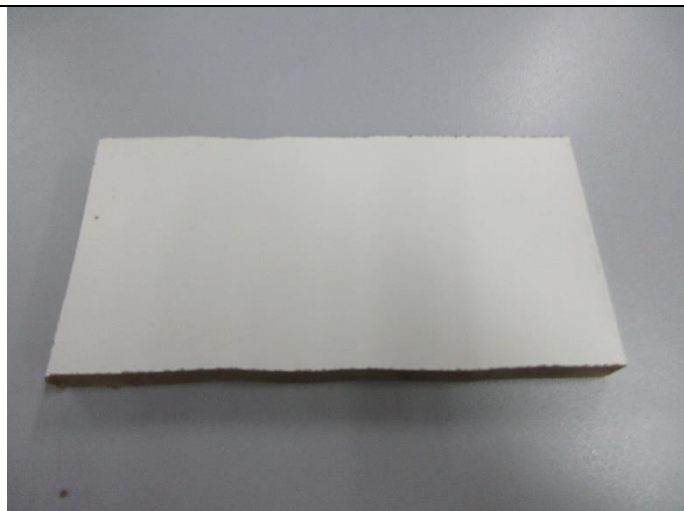


Exhibit 7. Before test

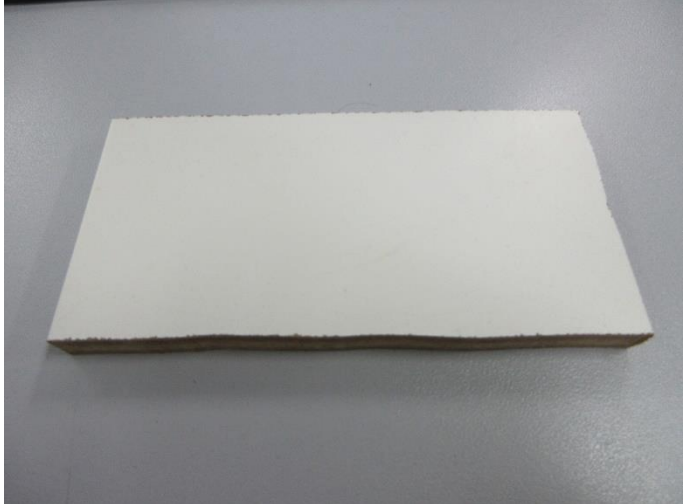
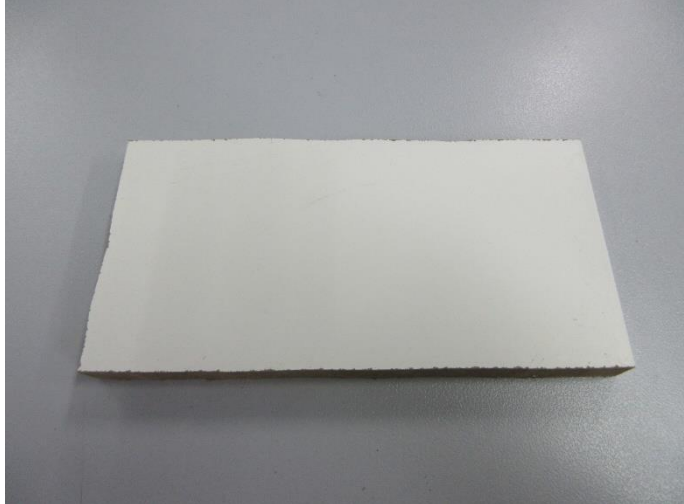


Exhibit 8. After test



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Sample 3

Exhibit 9. Before test	Exhibit 10. After test
	
Exhibit 11. Before test	Exhibit 12. After test
	

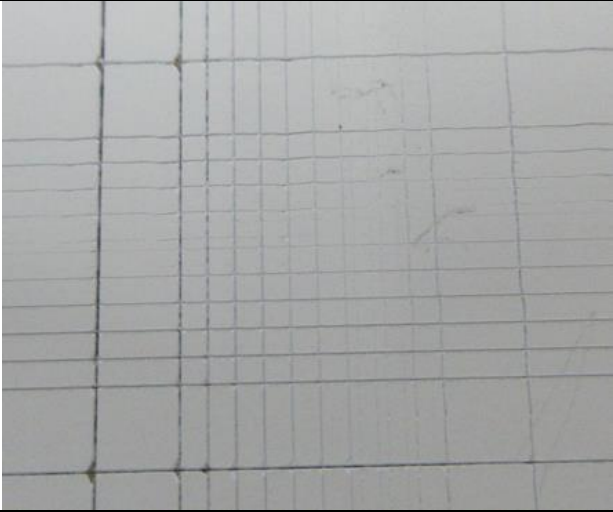
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Adhesion

Exhibit 13.	/
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The test results are considered as conform to specification based on the general consideration simple acceptance as stated in ISO/IEC GUIDE 98-4:2012.

If there is question or concern regarding the above results, please contact the appropriate lab person below:

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Email: Harry.Vu@cpt.eurofinsasia.com**Concerns About Billing and General Inquiries:****Primary Contact:** Vincent Pham
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