



## Test Report

according to:

**Customer Specific Requirement**

**and**

**ASTM D 3363-05**

**Standard Test Method for**

**Film Hardness by Pencil Test**

for:

Coating Panel Plate



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## 1. Applicant Details and Scope of Application

Applicant : **Ominent Sdn Bhd**  
6, Metropolitan Business Park, Jalan Para U8/103 Bukit  
Jelutong, 40150 Shah Alam, Selangor, Malaysia.

Applicants Representative : **Mr. Keong Chun Chieh**

Order Number : **1078 (Date: 20.12.2017)**

Confirmation Order Number : **1173008187**

Locations of System evaluation : **TUV RHEINLAND MALAYSIA SDN. BHD.**  
No.27, Jalan Para U8/103, Metropolitan Business Park, Seksyen  
U8, Bukit Jelutong, 40150 Shah Alam, Selangor, Malaysia.

Scope of Application : **Pencil Hardness Test**

Test Sample : **Coating Panel Plate**

Part Identification : **Ecocoat Kenzo**

Delivery Condition : **Samples tested as received**

Test Sample Receiving Date : **02/04/2018**

Date of Inspection : From **05/04/2018** To **05/04/2018**

Standards Applied : **1. Customer Specific Requirement  
(Quotation number 722009515)  
2. ASTM D3363-05 (Reapproved 2011)**

Environment Temperature / Room Temperature : **23 ± 2°C and 50 ± 5%RH**

Tester / Evaluator : **Nor Ilmi B Hj. Ibrahim**


Participants during testing : **Not Applicable**

Communication Language : **English**

Reported by:

Reviewed by:

06/04/2018  
Date

  
**NOR ILMI B HJ IBRAHIM**  
PROJECT ENGINEER  
MOBILITY

  
**MOHD SYAFIQ B H M MOHD AYOB**  
ENGINEERING MANAGER  
MOBILITY



## 2. Testing Description

No.	Testing Scope	Testing Description
1	Pencil Hardness Test	1. Test method is according to ASTM D3363-05 standard. 2. Test requirement is according to Customer Specific Requirement.

## 3. Testing Objectives, Basis and Scope of Assessment

No.	Testing Scope	Testing Objective, Basis and Scope of Assessment
1	Pencil Hardness Test	To report the result.

## 4. Testing Procedure

No.	Testing Scope	Testing Procedure
1	Pencil Hardness Test	1. The test was conducted by referring to test parameters below: i. Test condition : Room temperature ii. Pencil grade : H to 10H 2. The evaluation was carried out by visually inspecting the test sample surface in term of scratch.

## 5. Testing Evaluations

No.	Testing Scope	Evaluation	
1	Pencil Hardness Test	Sample 1	No scratch detected until pencil hardness grade 10H
		Sample 2	No scratch detected until pencil hardness grade 10H
		Sample 3	No scratch detected until pencil hardness grade 10H

## 6. Testing Summary

No.	Testing Scope	Result
1	Pencil Hardness Test	<b>Reported</b>

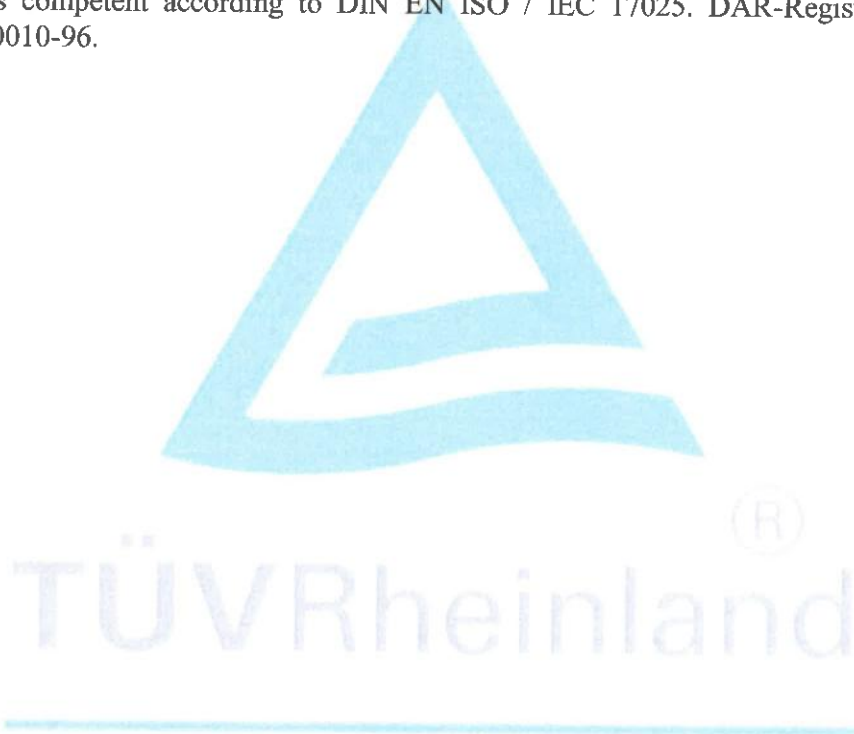


## 7. Statement of Conformity

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TUV Rheinland Malaysia is listed in the group certification of TÜV Rheinland Kraftfahrt GmbH as competent according to DIN EN ISO / IEC 17025. DAR-Registration-No.: KBA-P00010-96.



## 8. Appendix: Photographic Documentation

### APPENDIX 1: TEST SAMPLE

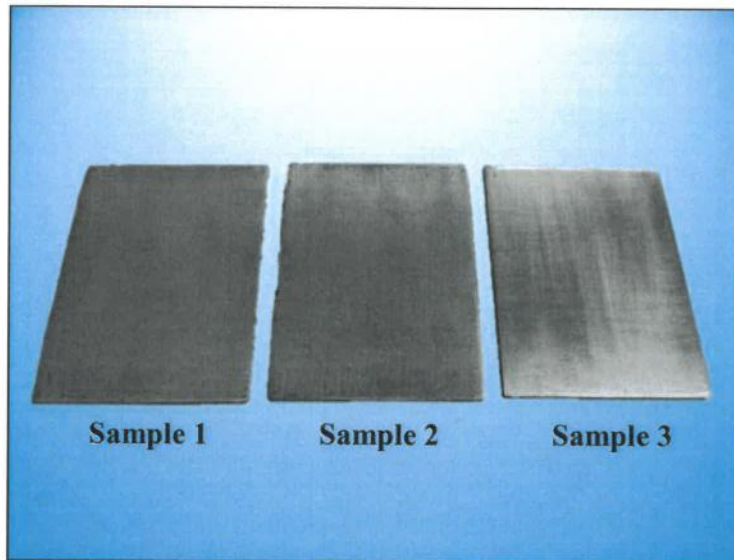


Photo 1: Test sample – Coating Panel Plate (Ecocoat Kenzo)

  
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**APPENDIX 2: PENCIL HARDNESS**

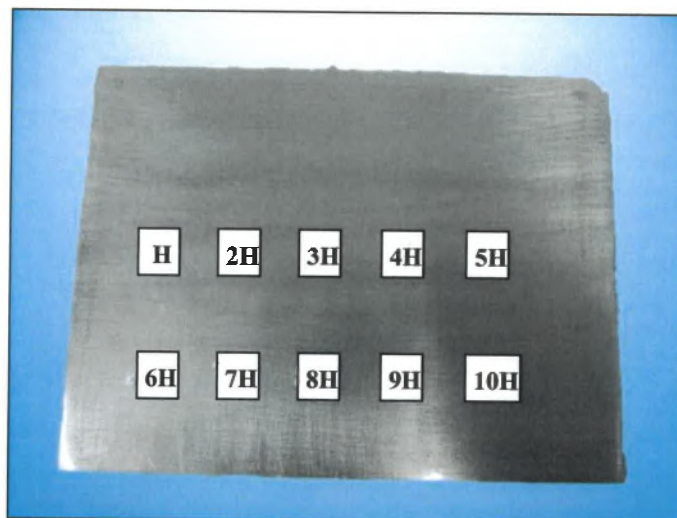


Photo 2: Test sample after test – Sample 1

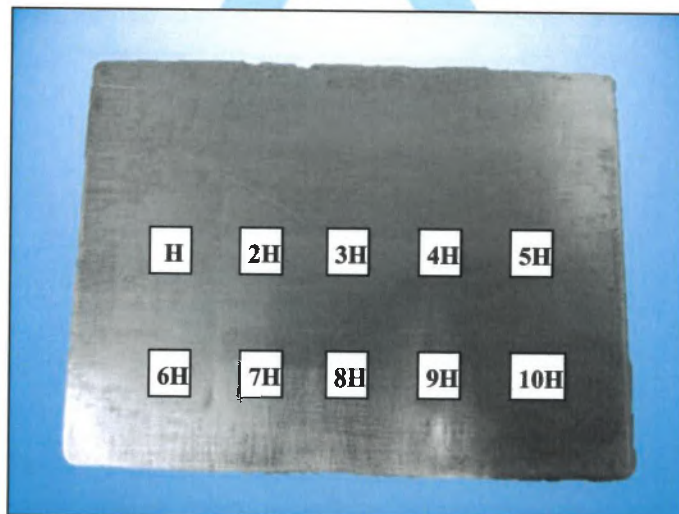


Photo 3: Test sample after test – Sample 2

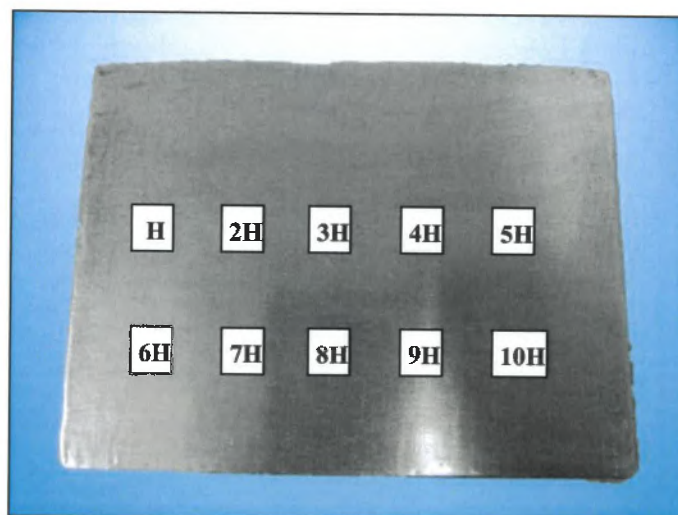


Photo 4: Test sample after test – Sample 3

**9. List of Test Measurement / Equipment**

No.	Test Measurement / Equipment	Serial / Inventory Number	Next Calibration
1	Mitsu-Bishi Pencil	Hi-Uni	Not Applicable



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