

Confidential

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TEST REPORT

INSPECTION DATA AT 1000 Total Hours

Duisburg, 8. August 2011

Purchase Order Number: AO-005915-3; Release Number: 30/05/2011
Client Reference: GUIDINGRAIL
Client Code: DRYCD

Test Number: DA11070

Report Number: 1
Test Type: CI5000 Xenon Arc Weather-Ometer®
Test Location: Duisburg, Germany
Specimens Inspected: 4
Description: Samples received at the 31.05.2011, no visible damages

Test method: SAE J2412 (2004)

Test Parameter	Setting
Cycle:	3,8 h Licht / 1 h Dunkel
Filters:	Inner: Quartz Outer: Borosilicate S Additional: None
Interference:	340NM
Sensor Type:	Black-Panel
Light Source:	Xenon
Irradiance:	0,55 ± 0,01 W/m ²
Black Panel Temperature Dark:	38°C ± 2°C
Black Panel Temperature Light:	89°C ± 3°C
Dry Bulb Temperature Dark:	38°C ± 2°C
Dry Bulb Temperature Light:	62°C ± 2°C
Humidity Dark:	95 % ± 5%
Humidity Light:	50% ± 5%

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Accelerated weathering according SAE J 2412 (2004); "Accelerated Exposure of Automotive interior trim Components using a controlled Irradiance water cooled Xenon Arc Apparatus"

Observations, Deviations and Waivers

* The Gloss measurement are very difficult, because the area for the measurement are very narrow.

Notes contained in relevant documents are an integral part of a test, and shall be included by the client in discussions, correspondence, and presentation of test results to a third party. This Test Report represents only one part of the test documentation. Interim reports and other test documentation may have been submitted prior to this date. Test results reported are pertinent only to the items tested and are not relevant to other specimens of the same type, or in the same lot, which are not being tested. Test Reports, and/or other pertinent test documentation, shall not be reproduced, except in full, without the written approval of Atlas Weathering Services Group and so certified by the client.

INSPECTION TEST PART 1

RADIATION DATA

Exposure Period: 08/06/2011 - 08/08/2011
 Type of Test: Total Hours

OBSERVATIONS FOR PART 1

None.

GLOSS MEASUREMENTS (08/08/2011)

Inspection acc. ISO 2813 (1994); "Paint and varnishes - Determination of specular gloss of non-metallic paint films at 60°"

Sample Number	GLOSS	GLOSS
	60°	60°
	INIT.	UNWSH
EN AW-6060 T4 -1	25,0	18,6
EN AW-6060 T4 -2	23,9	19,9
EN AW-6060 T4 -3	30,5	22,7
EN AW-6060 T4 -4	32,2	24,2

COLOR MEASUREMENTS (08/08/2011)

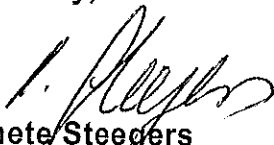
Colour measurements are performed with a Minolta Spectrophotometer with a 0/8 geometry in accordance with DIN 6174. The specimen port is circular with a 11 mm measurement area. The reduction of data is computed from spectral data taken every 10nm over the wavelength range from 360 to 740 nm. Measurements are performed with a CIE Lab color scale, with a 10 degree observer and illuminat D65. Colour difference is calculated in accordance with DIN 6174 (2007); "Colorimetric evaluation of colour coordinates and colour differences according to the approximately uniform CIELAB colour space".

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Sample Number		L*	a*	b*	E*	C*	H*
EN AW-6060 T4 -1	Initial	23,79	-0,21	-1,87			
	Current Unwashed	22,34	-0,55	-2,32			
	Delta	-1,45	-0,34	-0,45	1,56	0,50	-0,28
EN AW-6060 T4 -2	Initial	23,21	0,20	-3,32			
	Current Unwashed	24,61	-0,99	-4,69			
	Delta	1,40	-1,19	-1,37	2,29	1,47	1,06
EN AW-6060 T4 -3	Initial	23,94	-0,26	-1,66			
	Current Unwashed	22,57	-0,43	-1,90			
	Delta	-1,37	-0,17	-0,24	1,40	0,27	-0,10
EN AW-6060 T4 -4	Initial	24,03	-0,05	-2,98			
	Current Unwashed	24,00	-0,78	-4,11			
	Delta	-0,03	-0,73	-1,13	1,35	1,20	-0,62

If you have any questions, please do not hesitate to contact us.

Sincerely,



Agnete Steegers
 Laboratory Manager