



Delta Intercontinental Pte Ltd

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Test Report No: Delta/2010/WT-2 dated 1st Nov 2010

SUBJECT:

Accelerated Weathering Test on Delta Nano TiO₂

TESTED FOR:

Delta Intercontinental Pte Ltd
38 Woodlands Industrial Park E1
06-04 Singapore 757700

SAMPLE DESCRIPTION:

The following items were prepared on 3 Sept 2010 as shown:
The test samples were applied by Delta Intercontinental Pte Ltd.

Sample/Substrate	Area of application	Quantity
Leather fabric coated with Delta Nano TiO ₂	67 x 145 x 3mm	4 pcs

TEST METHOD:

This test is conducted with the methodology stated below.

- Adopted from ISO 11341: 2004 “Paint and varnishes – Artificial weathering and exposure to artificial radiation – Exposure to filtered Xenon-arc radiation”

Test Condition:

Apparatus used : Weathering Test Chamber Ci3000
Operating mode : Continuous irradiation (no dark cycles) with 18 minutes water spray followed by 102 minutes dry cycle
Light source (continuous) : Air-cooled xenon-arc lamps
Filter system : Xenonchrome 300 in Suprax cylinder
UV irradiance : 60 W/m² at 300 to 400 nm
Black standard temperature : 65 ± 2°C (dry cycle)
Relative humidity : 65 ± 5%
Test duration : 1000 light hours

- Adopted from ASTM D 4214-07 “Standard test methods for evaluating the degree of chalking of exterior paint films” Test Method A : Method D659



TEST RESULTS:

	Control (Uncoated)	Delta Nano TiO2
Delta E (Color Change)	2.45	2.3
Appearance	No chalking	No chalking

A handwritten signature in blue ink, appearing to read "Jason Tan".

Jason Tan
Research Engineer
Delta Intercontinental Pte Ltd

A handwritten signature in blue ink, appearing to read "Goh Chia Li".

Goh Chia Li
Lab Manager
Delta Intercontinental Pte Ltd