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ASTM D5894, Testing of ECRA-SH (LME) coated aluminium panels

Results of the above testing: as per attached report

This report was prepared and reviewed by:

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Date: 15/02/2011



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Test Report

Client : Pole Star Coils Pvt. Ltd
Contact/Reported to : Mr Viveck Varma
Date : 15.02.2011
Test requirement : ASTM D 5894
Reference : D5894S1-5/BC040166-750/1000
Sample details : ECRA-SHM (LME), Jade Green, Super Hydrophobic
Substrate : Standard aluminium plates, 152 x 75 mm
Sample number : 5 plates

Test details : ASTM D 5894
Exposure Duration : 1000 Hours
Exposure Conditions : per ASTM D 5894
Test Description : ASTM D 5894, Cyclic Corrosion/UV Exposure of Painted Metal

Abstract

Pole Star Coils Pvt. Ltd has provided 5 blue coated samples on standard aluminium test plates for ASTM D 5894, 750/1000 hour exposure testing.
The coating was identified as ECRA-SH, Jade Green
Coating thickness was within 8 to 10.5 microns range.
Standard pass/acceptance level is at 750 hours.

Test Results

Parameter	750 hours (Pass)	1000 hours
Blistering/No blistering at scribe	No blistering	No blistering
Surface rust	Nil detected	Nil detected
Corrosion	Nil detected	Nil detected

Test rating

All samples exceeded the specification requirements with an average rating score of 10 after 1000 hour cycle. Rating scale 0 -10 (10 = highest).

Colour stability

Due to the use of stabilised pigments in the formulation (instead of alternative dyes), the colour stability to fading was excellent to exceptional.

Conclusion

All samples tested exhibited excellent long-term coating's resistance to UV/corrosion and achieved a high score of 10.