

FLORIDA AND ARIZONA OUTDOOR EXPOSURE TEST

Application

This test method is used to determine the weathering resistance (e.g. color change, gloss, chalking, and cracking) of painted panels (ferrous and non-ferrous) and molded-in-color (plastics) under natural weathering in Florida or Arizona, both uncovered (direct) and under glass.

Apparatus and Materials Required

Color Matching Equipment

Refer to FLTM BI 109-01.

AATCC Gray Scale, 10 Step, according to AATCC Evaluation Procedure 1/ISO 105-A02
For evaluation of color change.

Available from: British Standards Institution
3 York Street
Manchester M2 2AT
United Kingdom

and

AATCC
P.O. Box 12215
Research Triangle Park
North Carolina 27709
U.S.A.

Gloss Measuring Equipment

60 and 20° glossmeter; refer to FLTM BI 110-01.

Lamp

Berkley Colortran Multi-10A lamp, model 100-301 using a Sylvania 120 V FBY bulb or equivalent.

Soft Cellulose Sponge

Liquid Soap

S-M1B4 or ESB-M1B9-A.

Date	Action	Revisions
2003 02 12	Revised	Updated Q-Lab's address
2001 03 20	Revised	Editorial – no technical change A. Cockman
1996 09 11		

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Polishing Compound - Poly-creame #302-20.

Source: Liquid Glaze Inc.
P.O. Box 482
Toccoa, Georgia 30577 U.S.A

or

Motorcraft Custom Car Wax
Part No. EXC 172 H
Ford Dealerships

or equivalent

Test Panels

Ferrous or non-ferrous, painted or color impregnated per applicable material or performance specification.

Glass (for under glass exposure)

Tempered Safety Glass
PPG Herculite K
3 mm thick

Specimen Preparation

A. **Painted Metal Panels** - Recommended size: 100 x 300 mm.

Prepare per BI 103-02 unless specified otherwise in the relevant specification.

B. **Plastics/Rubber** Recommended size 100 x 150 mm*, smaller samples are acceptable for finished parts or as defined in the applicable material specification (e.g. tensile bars, etc.).

*100 x 300 mm samples are commonly used for RIM urethane.

The sample(s) for exposure are to be mounted on a 150 x 300 mm metal panel painted with white production enamel using stainless fasteners or double sided pressure sensitive tape.

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.