



Testing Evaluation Laboratories, Inc.

2002 Wood Court Suite 1 – Plant City, FL 33563
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Test Report Issued To

**Worldwide Door Corporation
5017 North Coolidge Avenue
Tampa, FL 33613**

Test Report Number

TEL 01700389D

Dade County Notification Number:

TEL 12-006

Dade Certification Number

11-1213.01

Date Report Issued

April 28, 2014

Test Dates

July 27, 2012 through February 17, 2013

Model Designation

Composite Material for Door Jambs

Reference Specifications

**ASTM G155-05a
ASTM D638-03**

William B. Shelton
5/27/14

**William B. Shelton, PE
PE No. 26686
1505 Nance Avenue
Tampa, FL 33606**

ASTM G155 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

1. DESCRIPTION OF TEST MATERIAL
 - a. Composite Material for Door Jamb (Type I Dog Bone)
 - b. Manufactured by Worldwide Door Components
2. SPECIMEN PREPARATION AND CONDITIONING
 - a. Specimens were conditioned according to Practice ASTM G 147.
 - b. Specimens were properly and uniquely ID'd on the unexposed side.
3. DESCRIPTION OF EXPOSURE TEST
 - a. Exposure Device: Q-Sun Xe-3, Xenon Arc accelerated weathering machine
 - b. Filters: Daylight
 - c. Irradiance: 0.35 W/m²•nm measured at 340 nm wavelength
 - d. Panel Thermometer: Un-insulated Black Panel Thermometer
 - e. Exposure Cycle Used: Cycle 1
 - f. Mean Temperature: 63° C
 - g. Temperature Tolerance Limit: + - 3° C
 - h. Humidity: 50%
 - i. Time of Water Spray: 18 min Light and Water Spray
 - j. Condition of Water Used: Meets Specifications in ASTM D 1193 for Type IV Purified Water
 - k. Time of Light Period: 102 min at 63° C
 - l. Method Used to Mount Specimens: Specimens were placed on a tray, exposure side up.
 - m. Repositioning Method: Specimens were repositioned to a different quadrant of the tray once per week.
 - n. Radiometers Used: Solar Eye Irradiance Control System that was calibrated every 500 hours with a CR20/340/D Calibration Radiometer.
 - o. Exposure Period: 4,500 Hours

ASTM D638 Standard Test Method for Tensile Properties of Plastics

1. SPECIMEN PREPARATION AND CONDITIONING
 - a. Specimens were provided by Worldwide to conform to the dimensions of specimen Type I dog-bone shape. (Per Standard ASTM D638-03 Section 6.1 and ASTM G151-00 Section 6.1.3.1)
 - b. Specimens were conditioned in a controlled room at 73.4 + - 3.6 ° F with a relative humidity of 50 + - 5%, for not less than 40 hours prior to tensile testing. (Per Section 9)
2. ATMOSPHERIC CONDITIONS IN TEST ROOM
 - a. Mean Lab testing temperature: 74° F
 - b. Mean Lab testing Relative Humidity: 48%

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ASTM D638 TEST VALUES

Non-Exposed Specimen						
Specimen Number	Width (in)	Length (in)	Thickness (in)	Tensile Strength At Yield (psi)	Tensile Load At Yield (lbs)	Loading Rate (in/min)
CONT1	0.477	6.5	0.257	920	113	0.080
CONT2	0.486	6.5	0.253	840	104	0.080
CONT3	0.489	6.5	0.251	1450	178	0.080
CONT4	0.485	6.5	0.256	920	114	0.080
CONT5	0.472	6.5	0.255	1420	171	0.080
Average				1110		
Std. Dev.				300		

Exposed Specimen						
Specimen Number	Width (in)	Length (in)	Thickness (in)	Tensile Strength At Yield (psi)	Tensile Load At Yield (lbs)	Loading Rate (in/min)
W1	0.500	6.5	0.248	950	118	0.080
W2	0.499	6.5	0.250	1000	125	0.080
W3	0.498	6.5	0.248	1110	137	0.080
W4	0.494	6.5	0.248	1120	137	0.080
W5	0.497	6.5	0.254	1190	150	0.080
Average				1070		
Std. Dev.				100		

PERCENT DIFFERENCE CALCULATION

$$\% \text{ Diff.} = [(1110 \text{ psi} - 1070 \text{ psi}) / 1100 \text{ psi}] \times 100\% = -3.6\%$$

This meets the Miami-Dade BCCO requirement of +/- 10% maximum difference.

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Conditions, Terms, and General Notes Regarding These Tests

The product tested Has Been compared to the detailed drawing, bill of materials and fabrication information supplied by the client so named herein. Our analysis, which includes dimensional and component description comparisons, indicate the tested product and engineering information supplied by the client "Are Equivalent". The report and representative samples will be retained for ten years from the date of initial test.

These test results were obtained by employing all requirements of the designated test methods with no deviations unless explicitly noted in test report. The test results and specimen supplied for testing are in compliance with the reference.

The test results are specific to the product tested by this laboratory and of the sample supplied by the client named herein, and they relate to no other product either manufactured by the client, a fabricator of the client or of installed field performance.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

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