



Test Report Number PR034844.CRW

Testing of
Test Samples

PREPARED FOR: Crownduit
214 William Street
Red Bank, NJ 07701

PREPARED BY: National Technical Systems
36 Gilbert Street South
Tinton Falls, NJ 07701



REVISION PAGE

Rev. #	Date	Page #	Para. #	Description
0	3/3/15			Initial Release



SIGNATURES

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1.0 PURPOSE

This test report describes the methods used for the Environmental Testing of the Test Samples tested for Crownduit. This test program was conducted to determine the ability of the Test Samples to successfully satisfy the requirements specified in the references listed in section 2.0 of this report.

1.1 Test Program Sequence**1.1.1. Receipt Inspection**

Upon receipt at NTS, the Test Samples were visually inspected to ensure there had been no damage due to shipping/handling, and to confirm that the test model number and serial number coincide with those on the packing list.
No discrepancies or damage was observed.

1.1.2. Functional Test

No functionality applies.

1.1.3. Testing

Tests and Test Methods

Test	Standard/Test Method
Pull Test	N/A
Flammability	MIL-STD-202G Method 111A

2.0 APPLICABLE DOCUMENTS

- 2.1 NTS Quotation Number OP0163142**
- 2.2 Crownduit PO Number 1132**
- 2.3 MIL-STD-202G**
- 2.4 NTS Corporate Quality Policy Manual**
Revision 7, Dated October 9, 2012.

3.0 TEST ITEMS**3.1 Description**

Qty.	Item	Test
1	Outside Corner Sample	Pull Test
1	Inside Corner Sample	Pull Test
1	Flat Transition Sample	Pull Test
1	Flat Sample	Pull Test
1	Backing of Samples	Pull Test
1	Sample 1	Flammability
1	Sample 2	Flammability

3.2 Security Classification of Items

None

4.0 TEST DATE(S) AND EQUIPMENT**4.1 Test Date(s)**

Test	Date(s)
Pull Test	12/2/14
Flammability	12/19/14

4.2 Test Equipment

A list of the test equipment to be used is included in Appendix A of this procedure. This equipment is calibrated according to ISO 10012-1 and calibration is traceable to the National Institute of Standards and Technology (NIST). Calibration records are maintained on file at National Technical Systems.

5.0 GENERAL TEST REQUIREMENTS**5.1 Test Facility**

The Test Samples were tested for Environmental tests at NTS test facilities located in Tinton Falls, NJ.

5.2 Test Sample Configuration

The test item configurations are documented in the photographs contained in this test report.

5.3 Functional Pass/Fail Criteria

The Test Samples shall successfully satisfy the requirements specified in the references listed in Section 2.0 of this report. There were no pass/fail criteria for this testing.

6.0 TEST PROCEDURE**6.1 Pull Test****6.1.1. Requirement**

The Test Samples shall be pulled and the force measured to disengage the product.

6.1.2. Test Procedure

The test samples were connected to the test equipment and pulled. The force to disengage the product was measured.

6.1.3. Results

The Test Samples were tested to the above stated requirements.



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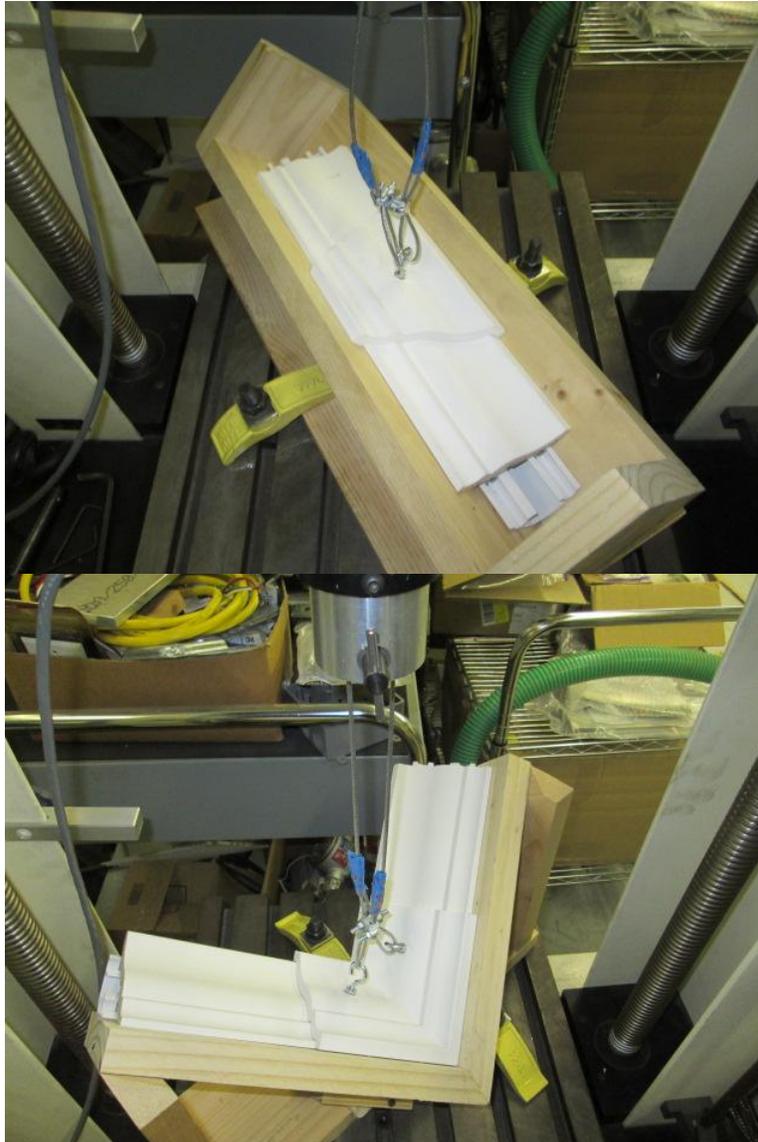
Test Data

DATA SHEET					
Job Number: 34844		Date: 12/2/14	Page 1 of 1		
Client: Crownduit		P. O. No.: 1132			
Test: Pull Test		Test Item: Molding			
Specification: N/A		Model or P/N: N/A			
Para./Sect.: N/A		S/N(s): N/A			
Remarks:					
Unit Under Test		Pull Force (lbs)			
Outside Corner Sample		23			
Inside Corner Sample		32.2			
Flat Transition Sample		19.4			
Flat Sample		63.3			
Backing of Samples		89.1			
Test Performed By: Brian Pasznik					
Project Manager: Mark Betts					

Test Equipment

NTS #	Manufacturer	Make	Model	S/N	Cal. Date	Cal. Due
WC005678	United	Tensile Tester	FM-30-EE-DR	1191208	1/17/2014	1/17/2015

Photographs





6.2 Flammability

6.2.1. Requirement

The Test Samples shall be tested for Flammability in accordance with MIL-STD-202G Method 111A.

6.2.2. Test Procedure

The specimens were mounted in the test chamber, one at a time. The torch was placed so that the axis of the flame was in the vertical direction.

When the torch was ignited, and after the flame was stable, the flow of gas through the nozzle of the torch (TX-1 equivalent) was adjusted so that the inner-cone length was 1/2 inch between the inner-cone tip and a point in the plane of the nozzle rim.

The specimen was placed so that the point of impingement of the flame on the specimen was 1-1/2 inches from the nozzle rim along the flame axis.

The flame was applied to the specimen for a period of 15 seconds and then removed.

Upon removal of the applied flame, the time of burning of visible flame on the specimen was recorded.

6.2.3. Results

The Test Samples were tested to the requirements of the Flammability test. The materials ignited and would not sustain a flame.



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Test Data

DATA SHEET			
Job Number: 34844		Date: 12/19/14	Page of
Client: Crownduit		P. O. No.:	
Test: Flammability		Test Item:	Test Samples
Specification: MIL-202G		Model or P/N:	N/A
Para./Sect.: Method 111		S/N(s):	N/A
Remarks: Neither of the test samples displayed signs of burning after the 15 second flame exposure.			
EUT	Distance From Flame	Burn Time	
Sample 1	1 ½ inches	0 seconds	
Sample 2	1 ½ inches	0 seconds	
Test Performed By: Brian Pasznik			
Project Manager: Mark Betts			

Test Equipment

NTS #	Manufacturer	Make	Model	S/N	Cal. Date	Cal. Due
NJ1134	Espec	Environmental Chamber	ESL28-6CA	165010	NCR	NCR

Photographs

