

Cambria County Association for the Blind and Handicapped

LETTER REPORT

SCOPE OF WORK

Xenon Arc Exposure PVC-Coated Cable Hangers PVC Plaques

REPORT NUMBER

104660576CRTCRT-001

ISSUE DATE

July 29, 2021

PAGES

5

DOCUMENT CONTROL NUMBER

GFT-OP-10a (6-March-2017) © 2017 INTERTEK





3933 US Route-11 Cortland NY, 13045 USA

www.intertek.com

LETTER REPORT

July 29, 2021

Intertek Report No. 104660576CRT-001 Intertek Project No. G104660576

Mr. Daron Daly
Ph: 814-472-5077
Cambria County Association for the Blind and Handicapped email: ddaly@cabproducts.com
175 Industrial Park Road
Ebensburg, PA 15931
USA

Subject: Xenon Arc Exposure

PVC-Coated Cable Hangers

PVC Plaques

Dear Daron:

This letter report represents the results of xenon arc exposure of the products above performed in accordance with the following standard:

Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials [ASTM G155:2013]

SECTION 1

SUMMARY

Intertek wishes to inform you we have completed a 1000-hour xenon-arc exposure of PVC-coated cable hangers and PVC plaques in accordance with the standard above. The xenon-arc exposure was performed at Intertek's Plastics Technology Laboratories in Pittsfield, MA. Please refer to the data sheets in Appendix A for additional information regarding the testing. No conclusions regarding compliance have been made; the test results are to be interpreted by Cambria County Association for the Blind and Handicapped.

SECTION 2

NON-CONFORMANCES

Not applicable. The test results are to be interpreted by Cambria County Association for the Blind and Handicapped.

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



Cambria County Association for the Blind and Handicapped Intertek Report No: 104660576CRT-001

LETTER REPORT

SECTION 3

CRITICAL COMPONENTS & MATERIALS

Not applicable

SECTION 4

TESTING

Testing as indicated in Table One below has been performed.

Completed Tests:

Xenon Arc Exposure

Pending Tests:

None

Test Description	Standard	Clause(s)	Result	Notes
1000-hour Xenon Arc Exposure	ASTM G155-13	NA	NA	Exposure of PVC-coated plaques and cable hangers Orange PVC identified from SDS as Protech Orange LV (370-2322), Product Code 370CX21249
				Cable hanger base material identified by client as 0.187" diameter galvanized steel wire

Table One: Completed Testing



Cambria County Association for the Blind and Handicapped Intertek Report No: 104660576CRT-001

LETTER REPORT

SECTION 5

PHOTOGRAPHS

Refer to test data sheets in Appendix A.

SECTION 6

PROJECT STATUS & ACTION

Issuance of this letter report completes all testing under Intertek project G104660576 as outlined in Quotation Qu-01167121 dated April 13, 2021. Please refer to the test data sheets in Appendix A for additional information regarding the testing.

In responding, please provide a written record of your proposed resolutions numbered in accordance with the items outlined in this letter report. Responding in this way assures that all responses are properly identified.

Once Intertek has received your response to all items outlined in this letter report, a Project Change Order (PCOR) may be issued to cover the scope of work necessary to review these responses.

If there are any questions regarding the information contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact your dedicated Intertek Project Manager.

Completed Reviewed Kenneth Riedl **Chuck Barlow** by: by: Title: **Engineering Reviewer** Senior Project Engineer Title: Camallo lie Signature: Signature July 29, 2021 Date Date: July 29, 2021

Please note: this Letter Report does not represent authorization for the use of any Intertek certification marks.

Version: 6-March-2017 Page 4 of 5 GFT-OP-10a



LETTER REPORT

Cambria County Association for the Blind and Handicapped Intertek Report No: 104660576CRT-001

APPENDIX A

Version: 6-March-2017 Page 5 of 5 GFT-OP-10a



Intertek USA, Inc. 50 Pearl Street Pittsfield, MA 01201 USA Tel +1 413 499 0983 Fax +1 413 499 2339 Customer.service@intertek.com intertek.com

July 29, 2021

Mr. Daron Daly Cambria County Association for the Blind and Handicapped 175 Industrial Park Road Edensburg, PA 15931-4109 USA

Intertek PTL # P20210579

Dear Mr. Daly:

Enclosed you will find the results for the testing you requested.

If you have any questions regarding the data, please do not hesitate to contact me.

Yours sincerely,

Kevin E. SchumanQuality Manager

Lin & Schuman

KES/nm Enclosures

Unless inherent in the requested specification or standard, Intertek laboratories apply the "Simple Acceptance" rule, also called "Shared Risk approach" of ILAC-G8:09/2019 guide where the statements of conformity are reported as either: Passed (or intolerance) when measured values are within the specified limits, or Failed (or out-of-tolerance) if one or more measured values are outside the specified limits. If the Client requests a statement of conformity other than one inherent in the specification or standard or the "Simple Acceptance" rule, the decision rule shall be clearly defined by the Client, communicated to Intertek, and agreed by all related parties.





Accelerated Weathering Report Page 1 of 1

Testing : Standard Practice for Xenon-Arc Exposure of Plastics Intended for

: Outdoor Applications

Test Method : ASTM D2565-16, ASTM G155-13

Project Number : P20210579

Customer : Cambria County Association for the Blind and Handicapped

Attention : Daron Daly
Operator : D. Loehr
Date : July 26, 2021



Instrument : Atlas Model Ci4000 Xenon Arc Weather-Ometer® S/N 15733 Calibrated: 5/26/21

Inner Filter Type and Age at Start : 72 hours Inner Filter Changed : Y
Outer Filter Type and Age at Start : 1018 hours Outer Filter Changed : Y

Irradiance at 340 nm : 0.55 W/m²

Temperature Control : Black Panel Sensor

Water Source : RO/DI

Control Material : Clear Polystyrene Lightfastness Standard

Control Material Replacement : Weekly

Specimen Repositioning Cycle : None necessary

TEST CYCLE Continuous Light at 70°C / 50%Relative Humidity

Date and Time samples removed : 7/26/21 9:00AM

Radiant Exposure

Material Exposure Time at 340 nm (machine hrs) (kJ/m2)

(12) PVC Hangers & (12) Plaques 1001 1978

4 Hangers-6mil

4 Hangers- 7mil

4 Hangers-8mil

4 Plaques-6mil

4 Plaques-7mil

4 Plaques-8mil

Note: The plaques were exposed on the shiny side

Intertek reports are issued for the exclusive use of the clients to whom they are addressed. No quotations from reports or use of the Intertek name is permitted except as expressly authorized in writing. Letters and reports apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of identical or similar materials, products or processes. The liability of Intertek with respect to services rendered shall be limited to the amount of consideration paid for such services and not include any consequential damages.

Page 1 of 9

Client:	Cambria County Association for the Blind and Handicapped (CAB Products)	Engineer:	Kenneth Riedl	KN	Date:	7/29/2021
Job #:	G104660576	Tested by:	Kenneth Riedl 火パ		Date:	7/29/2021
		Pre-Review:	Chuck Barlow	03	Date:	5/18/2021
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow	03	Date:	7/29/2021
	PVC-Coated Cable Hangers and			Control	*	
Product:	PVC Plaques	Sample Condition:	Production Number: CRT2105041059-001			41059-001
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials					

Test Result Summary

Test Description	Date Completed	Pass /Fail	
1000-hour Xenon Arc Exposure for (12) hangers and (12) Plaques, with 60, 70 and 80 mil PVC coating thickness	7/26/2021	NA	
Post-exposure visual check (cracking, fading)	7/29/2021	NA	



Client:	Cambria County Association for the Blind and Handicapped (CAB Products)	Engineer:	Kenneth Riedl	KN	Date:	7/29/2021
Job #:	G104660576	Tested by:	Kenneth Riedl	KK	Date:	7/29/2021
		Pre-Review:	Chuck Barlow	03	Date:	5/18/2021
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow	23	Date:	7/29/2021
	PVC-Coated Cable Hangers and			Control	•	
Product:	PVC Plaques	Sample Condition:	Production	Number:	CRT210504	1059-001
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials					

Test Equipment Used

Item	Equipment Type	Equipment #	Cal. Due Date				
1	Temperature/Humidity Indicator	T1393	9/1/2021				
2	Refer to Intertek Pittsfield data sheets for additional test equipment used.						

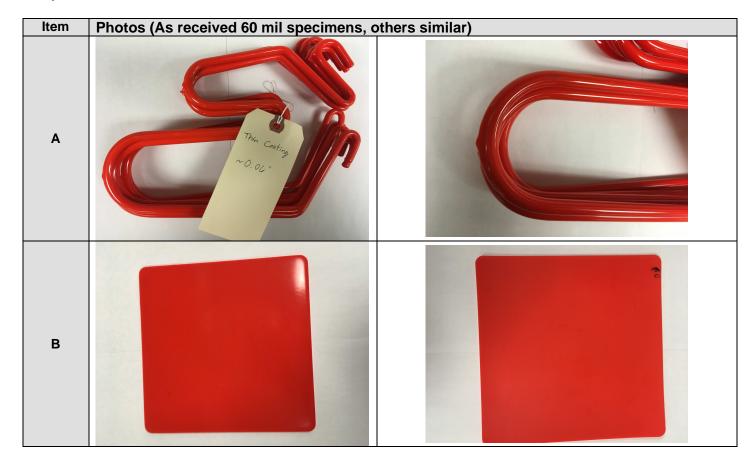
Sample Identification

Item	Description	No. Rec'd
A	PVC Coated Steel Hangers, Coating thicknesses of 60, 70, and 80 mils, base material 0.187" diameter galvanized steel wire	(16) Total
В	PVC Plaques, approximately 6"x6", thicknesses of 60, 70, and 80 mils	(12) Total



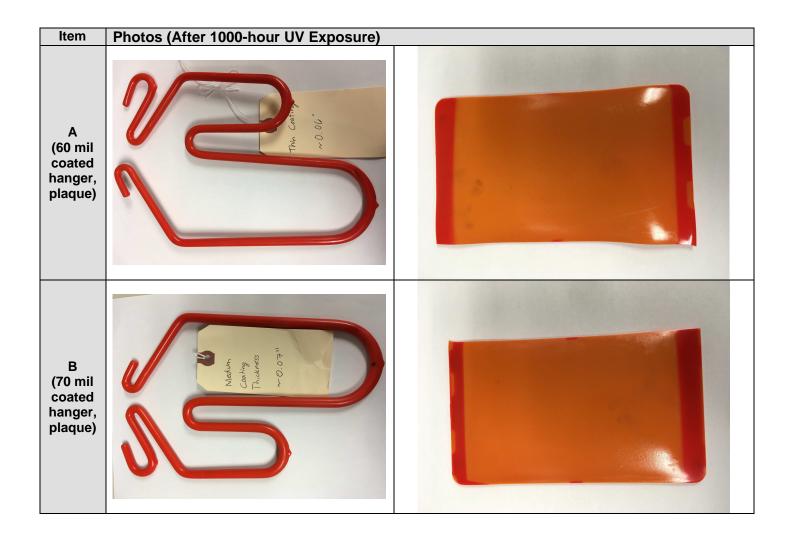
Product: Standard:	PVC Plaques Sample Condition: Production Number: CRT2105041059-001 ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials					
Dura di cata	PVC-Coated Cable Hangers and	Communica Committee and	Dun dun din n	Control	CDT24050	44.050.004
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow	2 3 -	Date:	7/29/2021
		Pre-Review:	Chuck Barlow		Date:	5/18/2021
Job #:	G104660576	Tested by:	Kenneth Riedl	KK	Date:	7/29/2021
Client:	Cambria County Association for the Blind and Handicapped (CAB Products)	Engineer:	Kenneth Riedl	KN	Date:	7/29/2021

Sample Identification





	Cambria County Association for the Blind and Handicapped					
Client:	(CAB Products)	Engineer:	Kenneth Riedl	KK	Date:	7/29/2021
Job #:	G104660576	Tested by:	Kenneth Riedl	KK	Date:	7/29/2021
		Pre-Review:	Chuck Barlow	03	Date:	5/18/2021
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow	23	Date:	7/29/2021
	PVC-Coated Cable Hangers and			Control		
Product:	PVC Plaques	Sample Condition:	Production	Number:	CRT210504	1059-001
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials					





Client:	Cambria County Association for the Blind and Handicapped (CAB Products)	Engineer:	Kenneth Riedl	KN	Date:	7/29/2021
Job #:	G104660576	Tested by:	Kenneth Riedl	KK	Date:	7/29/2021
		Pre-Review:	Chuck Barlow	03	Date:	5/18/2021
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow	23	Date:	7/29/2021
	PVC-Coated Cable Hangers and			Control		
Product:	PVC Plaques	Sample Condition:	<i>Production Number:</i> CRT2105041059-001		1059-001	
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials					





	Cambria County Association for the Blind and Handicapped					
Client:	(CAB Products)	Engineer:	Kenneth Riedl	KK	Date:	7/29/2021
Job #:	G104660576	Tested by:	Kenneth Riedl	KK	Date:	7/29/2021
		Pre-Review:	Chuck Barlow	03	Date:	5/18/2021
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow	23	Date:	7/29/2021
	PVC-Coated Cable Hangers and			Control		
Product:	PVC Plaques	Sample Condition:	on: Production Number: CRT2105041059-001			
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials					

1000 Hour Accelerated Weathering

Test Parameters:				
Conditioning:	Xenon Arc, Continuous Light at 0.55W/(m2•nm)			
	Borosilicate Glass Filters			
	Black Panel Temperature of 70°C			
Exposure Duration: 1000 Hours				
Number of Test Specimens:	(4) PVC Coated Steel Hangers, 60 mil coating (0.187" diameter galvanized steel wire)			
	(4) PVC Coated Steel Hangers, 70 mil coating (0.187" diameter galvanized steel wire)			
	(4) PVC Coated Steel Hangers, 80 mil coating (0.187" diameter galvanized steel wire)			
	(4) PVC Plaques, 60 mils			
	(4) PVC Plaques, 70 mils			
	(4) PVC Plaques, 80 mils			
Note:	Xenon arc exposure performed at Intertek Pittsfield: May 26 – July 26, 2021			



	Cambria County Association for the Blind and Handicapped					
Client:	1	Engineer:	Kenneth Riedl	KK	Date:	7/29/2021
Job #:	G104660576	Tested by:	Kenneth Riedl	KK	Date:	7/29/2021
		Pre-Review:	Chuck Barlow	03	Date:	5/18/2021
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow	03	Date:	7/29/2021
	PVC-Coated Cable Hangers and			Control	<u>.</u>	
Product:	PVC Plaques	Sample Condition:	Production	Number:	CRT210504	1059-001
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials					

Results:						
Sample	After UV Exposure After U		Fading of Coating After UV Exposure (Y/N)?	Comments	Pass/Fail	
	One	N	Y (slight)	Gloss reduction, tackiness	NA	
CO NA:1	Two	N	Y (slight)	Gloss reduction, tackiness	NA	
60 Mil Coated	Three	N	Y (slight)	Gloss reduction, tackiness	NA	
Hanger	Four	N	Y (slight)	Gloss reduction, tackiness	NA	
	Five	N	Y (slight)	Gloss reduction, tackiness	NA	
	One	N	Y	Warping, residue on exposed surface	NA	
60 Mil	Two	N	Warping, residue on exposed surface		NA	
Plaque	Three	N	Υ	Warping, residue on exposed surface	NA	
	Four	N	Υ	Warping, residue on exposed surface	NA	
	One	N	Y (slight)	Gloss reduction, tackiness	NA	
70 Mil	Two	N	Y (slight)	Gloss reduction, tackiness	NA	
Coated Hanger	Three	N	Y (slight)	Gloss reduction, tackiness	NA	
	Four	N	Y (slight)	Gloss reduction,	NA	



	Cambria County Association for the Blind and Handicapped							
Client:	(CAB Products)	Engineer:	Kenneth Riedl KM		Date:	7/29/2021		
Job #:	G104660576	Tested by:	Kenneth Riedl 火ベ		Date:	7/29/2021		
		Pre-Review:	Chuck Barlow		Date:	5/18/2021		
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow 🥰		Date:	7/29/2021		
	PVC-Coated Cable Hangers and		Control					
Product:	PVC Plaques	PVC Plaques Sample Condition		<i>Number:</i> CRT2105041059-001				
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials							

ample	Specimen	Cracking of Coating	Fading of Coating	Comments	Pass/Fail	
	Specimen .	After UV Exposure (Y/N)?	After UV Exposure (Y/N)?		. 455, . 411	
	One	N	Y	Warping, residue on exposed surface	NA	
70 Mil	Two	N	Y	Warping, residue on exposed surface	NA	
Plaque	Three	N	Y	Blister, warping, residue on exposed surface	NA	
	Four	N	Y	Warping, residue on exposed surface	NA	
	One	N	Y (slight)	Slight gloss reduction, slight tackiness	NA	
80 Mil Coated Hanger	Two	N	Y (slight)	Slight gloss reduction, slight tackiness	NA	
-	Three	N	Y (slight)	Slight gloss reduction, slight tackiness	NA	
	One	N	Y	Residue on exposed surface	NA	
80 Mil	Two	N	Υ	Residue on exposed surface	NA	
Plaque	Three	N	Y	Residue on exposed surface	NA	
	Four	N	Υ	Residue on exposed surface	NA	



Client:	Cambria County Association for the Blind and Handicapped (CAB Products)	Engineer:	Kenneth Riedl [[/		Date:	7/29/2021		
Job #:	G104660576	Tested by:	Kenneth Riedl 🏴		Date:	7/29/2021		
		Pre-Review:	Chuck Barlow		Date:	5/18/2021		
Quote #:	Qu-01167121	Reviewer:	Chuck Barlow 🧬		Date:	7/29/2021		
	PVC-Coated Cable Hangers and		Control		*			
Product:	PVC Plaques	Sample Condition:	ample Condition: Production Number: CRT210504		41059-001			
Standard:	ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials							

_	•	
Roa	uiremen	tc
IVE 4	un enien	LJ

There are no requirements. Report the appearance of the hangers and plaques after 1000 hours of xenon-arc exposure.

Intertek Comments:										
NA	(Pass) The product complies with all applicable requirements of this test.									
NA	(Fail) The product does not comply with the requirements of this test.									
Test Date: 7/29/2021 Tested By: Kenneth Riedl 💯										
Environ	Environmental Conditions During Testing: Humidity: 66.1% RH Ambient: 20.9°C									
Equipm	Equipment Used (See page 3 for details):									