



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

[www.maimidade.gov/buildingcode](http://www.maimidade.gov/buildingcode)

**SABIC Innovative Plastics  
One plastics Avenue.  
Pittsfield, MA 01201.**

**SCOPE:** This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone.

**DESCRIPTION: Lexan Sheet Products**

**APPROVAL DOCUMENT:** Drawing No.07-446, titled “Lexan Sheet Products”, Sheets 1 & 2 of 2, dated 02/15/08, with last revision on 02/15/08, prepared by Thornton Tomasetti Group, signed and sealed by Gary F. Panariello, Ph.D., P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: None.** This approval does not include an evaluation of structural performance of this component. Test reports and other required documents shall be submitted to Dade County Product Control; showing that the systems using this polycarbonate sheets will resist the loads according to Chapter 16 of the F.B.C., in order to issue an specific product approval for the system.

**LABELING:** Plastic Sheets under this Product Approval shall be permanently marked in a corner of the sheet with the company logo, “MDCA” standing for “Miami-Dade County Approved”and Mt. Vernon, IN and Long Sault, Ontario, Canada the location of the manufacturing plant. The fabricator producing the polycarbonate sheets shall apply this mark.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

**This NOA revises NOA # 07-0212.01** and consists of this page, evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*Carlos M. Utrera*  
3/31/08

**NOA No: 08-0305.02  
Expiration Date: July 17, 2013  
Approval Date: April 24, 2008**

**NOTICE OF ACCEPTANCE: EVIDENCE PAGE**

**A. DRAWING**

1. Drawing No.07-446, titled "Lexan Sheet Products", Sheets 1 & 2 of 2, dated 02/15/08, with last revision on 02/15/08, prepared by Thornton Tomasetti Group, signed and sealed by Gary F. Panariello, Ph.D., P.E.

**B. TEST REPORTS**

	<u>Laboratory Report</u>	<u>Test</u>	<u>Date</u>	<u>Signature</u>
1.	SGS 548643-01	ASTM D 635	03/01/06	J. Lomash
2.	SGS 548643-02	ASTM D 2843	03/01/06	J. Lomash
3.	SGS 548643-03	ASTM D 1929	03/01/06	J. Lomash
4.	SGS 494881-04	ASTM D 635	01/06/06	J. Lomash
5.	SGS 494881-05	ASTM D 635	01/06/06	J. Lomash
6.	SGS 548643-06	ASTM D 635	03/10/06	J. Lomash
7.	SGS 548643-07	ASTM D 1929	03/10/06	J. Lomash
8.	SGS 494881-07	ASTM D 2843	01/10/06	J. Lomash
9.	SGS 548643-09	ASTM D 2843	03/10/06	J. Lomash
10.	SGS 548643-10	ASTM D 1929	03/10/06	J. Lomash
11.	SGS 548643-11	ASTM D 2843	03/10/06	J. Lomash
12.	SGS 548643-12	ASTM D 2843	03/10/06	J. Lomash
13.	SGS 548643-13	ASTM D 635	03/10/06	J. Lomash
14.	SGS 548643-14	ASTM D 2843	03/10/06	J. Lomash
15.	ETL 3073590	ASTM D638, G26 & G155	11/04/05	C. Lawson

*"Evidence Submitted under NOA # 07-0212.01"*

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Building Code Compliance Office (BCCO).

**D. MATERIAL CERTIFICATIONS**

1. None.



Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 08-0305.02  
Expiration Date: July 17, 2013  
Approval Date: April 24, 2008


NOTICE OF ACCEPTANCE: EVIDENCE PAGE

**E. STATEMENTS**

1. Code Compliance letter issued by Thornton Tomasetti Inc. on 09/15/06 signed and sealed by J. W. Knezevich PE.
2. No Financial Interest letter issued by Thornton Tomasetti Inc on 09/15/06 signed and sealed by J. W. Knezevich PE.  
***"Evidence Submitted under NOA # 07-0212.01"***
3. Letter from SABIC Innovative Plastics stating that they have legally purchased all Assets of General Electric Plastics and requesting that a new NOA be issued under their name, dated 02/14/08, signed by Ralph R. Buoniconti.
4. Letter from General Electric Plastics stating that they legally sold all assets to SABIC Innovative Plastics and they have given up all rights, machinery, equipment, and know-how used in the fabrication of this product, dated 10/05/07, signed by Briggs Tobin.
5. Bill of Sale, Assignment and Assumption Agreement, signed by General Electric Plastics and SABIC Innovative Plastics.

**E. OTHERS**

1. Notice of Acceptance No. **07-0212.01**, issued to General Electric Plastics, approved on 05/25/07 and expiring on 07/17/08.



3/31/08

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 08-0305.02  
Expiration Date: July 17, 2013  
Approval Date: April 24, 2008

**MATERIAL CHARACTERISTICS:**

DESCRIPTION	TESTING STANDARD	PROPERTIES						
		Lexan @ 9030			XL-10	MR-10		Mega-Corrugated
		0.030 IN (MIN.)	0.060 IN (MIN.)	0.080 IN (MIN.)	0.125 IN (MIN.)	0.125 IN (MIN.)	0.500 IN (MIN.)	0.093 IN (MIN.)
SELF-IGNITION	ASTM D-1929	980° F	980° F	980° F	980° F	980° F	980° F	1080° F
FLASH IGNITION	ASTM D-1929	780° F	780° F	780° F	780° F	780° F	780° F	920° F
AVG. BURNING TIME	ASTM D-635	95 sec	250 sec	40 sec	45 sec	25 sec	50 sec	< 5 sec
AVG. EXTENT OF BURNING	ASTM D-635	45 mm	--	20 mm	10 mm	10 mm	20 mm	< 5mm
BURNING RATE	ASTM D-635	23.33 mm/min	18.1 mm/min	--	--	--	--	--
BURNING RATE CLASS	ASTM D-635	CC2	CC2	CC1	CC1	CC1	CC1	CC1

DESCRIPTION	TESTING STANDARD	PROPERTIES						
		Lexan @ 9034		XL-10		MR-10		Mega-Corrugated
		0.125 IN	0.225 IN	0.093 IN	0.500 IN	0.125 IN	0.500 IN	0.082 IN
SMOKE DENSITY	ASTM D-2843	64.5%	69.1%	73.2%	68.7%	67.0%	69.8%	-
SMOKE DENSITY	ASTM E-84	-	-	-	-	-	-	360

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 08-0305-02  
 Expiration Date 07/17/2013  
 By *[Signature]*  
 Miami Dade Product Control Division

**GENERAL NOTES:**

- THIS LEXAN® POLYCARBONATE MATERIAL COMPLIES WITH THE 2004 FLORIDA BUILDING CODE WITH 2005 AMENDMENTS, INCLUDING HVHZ PROVISIONS.
- THIS IS A MATERIAL COMPLIANCE DOCUMENT. ANY SPECIFIC USE OF THE MATERIAL AS A BUILDING COMPONENT SHALL REQUIRE A SPECIFIC APPROVAL DESIGNATING THE APPLICABLE USE.
- THIS DOCUMENT SHALL BE USED BY A LICENSED ARCHITECT OR ENGINEER TO DETERMINE THE APPROPRIATE APPLICATION.
- ACCELERATED WEATHERING TESTING CONDUCTED PER ASTM G-26 ON LEXAN® 9034 AND LEXAN® THERMOCLEAR WITH STANDARD LIGHT TRANSMISSION INDEXES. COLORED OR TINTED SHADES ARE OUTSIDE THE SCOPE OF THIS TESTING AND APPROVAL DOCUMENT.
- LEXAN® 9034 REPRESENTS THE UNCOATED POLYCARBONATE SHEET AND IS APPROVED FOR USE IN EXTERIOR APPLICATIONS WITHOUT THE UV PROTECTIVE COATING. SEE NOTE 2.  
 LEXAN® 9034 SHEET QUALIFIES:  
 LEXAN® 9030, BOTH SURFACES SMOOTH  
 LEXAN® 9038, MATTE SURFACE TEXTURE  
 LEXAN® 90316, PRISMATIC SURFACE  
 LEXAN® 90317, PRISMATIC SURFACE  
 LEXAN® PAG, PEBBLE SURFACE TEXTURE
- LEXAN® MEGA-CORRUGATED UTILIZES LEXAN® 9034 AS A BASE PRODUCT AND QUALIFIES LEXAN® CORRUGATED AND THIN-CORRUGATED AND IS APPROVED FOR EXTERIOR USE.
- MR-10 SHEETS UTILIZE LEXAN® 9034 AS A BASE PRODUCT AND ARE APPROVED FOR EXTERIOR USE. SEE NOTE 2.
- XL-10, XL10 SP, AND XL10 2UV SHEETS UTILIZE LEXAN® 9034 AS A BASE PRODUCT AND ARE APPROVED FOR EXTERIOR USE. SEE NOTE 2.  
 LEXAN® XL-10 SHEET QUALIFIES:  
 LEXAN® SG-100, SMOOTH SURFACES  
 LEXAN® SGC100, SMOOTH SURFACES  
 LEXAN® SG300, MATTE SURFACE TEXTURE  
 LEXAN® SG400, WHITE  
 LEXAN® SG410 SHEET
- LEXAN® THERMOCLEAR SHEETS ARE MULTI-WALL POLYCARBONATE PLASTIC SHEETS OF LEXAN® RESIN MANUFACTURED BY SABIC INNOVATIVE PLASTICS.
- LEXAN® LEXGARD IS A POLYCARBONATE LAMINATE OF LEXAN® RESIN MANUFACTURED BY SABIC INNOVATIVE PLASTICS INCORPORATING UV COATING AND IS APPROVED FOR EXTERIOR USE. SEE NOTE 2.
- FOR EXTERNAL APPLICATIONS, MINIMUM THICKNESS SHALL BE 0.033 IN FOR SHEETS AND 6mm FOR MULTI-WALLED APPLICATIONS.
- XLDSCIR SHEETS ARE APPROVED FOR INTERIOR USE ONLY.

DESCRIPTION	TESTING STANDARD	PROPERTIES													
		LEXGARD				XL10 2UV					XL10 SP	XLDSCIR			
		MPC375	MPC500	MP1000	SP1250	0.080 IN	0.093 IN	0.118 IN	0.177 IN	0.236 IN	2 mm	COLOR: GN9A047T	COLOR: GN8A081T	0.118 IN	0.177 IN
SELF-IGNITION	ASTM D-1929	1080° F	1080° F	1080° F	1080° F	1182° F* (3 grams)	1182° F* (3 grams)	1182° F* (3 grams)	1182° F* (3 grams)	1182° F* (3 grams)	1212° F	982° F*	982° F*	1012° F*	1012° F*
FLASH IGNITION	ASTM D-1929	960° F	960° F	960° F	960° F	962° F* (3 grams)	962° F* (3 grams)	962° F* (3 grams)	962° F* (3 grams)	962° F* (3 grams)	972° F	992° F*	992° F*	1032° F*	1032° F*
AVG. BURNING TIME	ASTM D-635***	17 sec	8 sec	6 sec	4 sec	--	--	--	--	--	53 sec	--	--	--	--
AVG. EXTENT OF BURNING	ASTM D-635***	8 mm	7 mm	14 mm	5 mm	--	--	--	--	--	12.5 mm	--	--	--	--
BURNING RATE	ASTM D-635***	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BURNING RATE CLASS	ASTM D-635***	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1
SMOKE DENSITY	ASTM D-2843	0.375 IN	0.500 IN	1.000 IN	1.250 IN	0.25 IN	0.25 IN	0.25 IN	0.25 IN	0.25 IN	0.25 IN	0.118 IN	0.177 IN	0.118 IN	0.177 IN
		71.1%	72.9%	25.1%	74.9%	60.5%**	60.5%**	60.5%**	60.5%**	60.5%**	52.8%	57.1%	55.0%	49.3%	49.2%

\*ASTM D-1929 TEST BASED ON FORM OF MATERIAL AND MASS. THEREFORE, ONLY ONE TEST IS REQUIRED FOR GROUP OF SIMILAR PRODUCTS.  
 \*\*ASTM D-2843 TEST IS APPROX. 1"x1"x 1/4" THICKNESS. THEREFORE, ONE TEST QUALIFIES ALL THICKNESSES OF A GROUP OF SIMILAR PRODUCTS.  
 \*\*\*ASTM D-635 ALL GAUGES BETWEEN MINIMUM & MAXIMUM THICKNESSES WILL BE APPROVED FOR THE SAME BURNING RATE CLASS OF THE THINNER PRODUCT.

DESCRIPTION	TESTING STANDARD	Lexan @ 9034		Lexan @ Thermoclear
		0.033 IN		6 mm
		MD	CD	
TENSILE STRENGTH BEFORE WEATHERING	ASTM D-638	8940 PSI	8730 PSI	9326 PSI
TENSILE STRENGTH AFTER WEATHERING	ASTM D-638	8880 PSI	8920 PSI	8618 PSI
PERCENT DIFFERENCE		-0.7%	2.1%	-7.6%

MD - MACHINE DIRECTION  
 CD - CROSS DIRECTION

**Thornton Tomasetti**  
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LEXAN® SHEET PRODUCTS  
**SABIC Innovative Plastics US LLC**  
 One Plastic Avenue  
 Pittsfield, MA 01201

Gary F. Panariello  
 Professional Engineer  
 FL License No.: FE0056155  
 FEB 15 2008

revisions	description	date	by
	PREVIOUSLY DRAWING NO. 06-086	02/11/2008	NW
scale	AS NOTED	drawn by	MCR
design by	NW	checked by	JWK
drawing no.	07-446		
sheet	1 of 2		

**MATERIAL CHARACTERISTICS:**

DESCRIPTION	TESTING STANDARD	PROPERTIES														
		LEXAN® THERMOCLEAR														
		LTS 4.5 MM/2RS		LTC 2R6		LTC 2R8		LTC 2R10		LTC 3T16		LTC 20/5RS3300		LTC 25/6RS3500		LTC 32/5X3
4.5mm		6mm		8mm		10mm		16mm		20mm		25mm		32mm		
SELF-IGNITION	ASTM D-1929	1110° F		1110° F		1110° F		1110° F		1110° F		1110° F		1110° F		
FLASH-IGNITION	ASTM D-1929	940° F		940° F		940° F		940° F		940° F		940° F		940° F		
		ACROSS RIB	ALONG RIB	ACROSS RIB	ALONG RIB	ACROSS RIB	ALONG RIB	ACROSS RIB	ALONG RIB	ACROSS RIB	ALONG RIB	ACROSS RIB	ALONG RIB	ACROSS RIB	ALONG RIB	
AVG. BURNING TIME	ASTM D-635	10 sec	60 sec	< 5 sec	< 5sec	< 5sec	< 5sec	< 5sec	< 5sec	< 5sec	15 sec	85 sec	95 sec	110 sec	125 sec	60 sec
AVG. EXTENT OF BURNING	ASTM D-635	5 mm	35 mm	< 5 mm	< 5 mm	< 5 mm	< 5 mm	< 5 mm	< 5 mm	< 5 mm	< 5 mm	--	--	45 mm	55 mm	10 mm
BURNING RATE	ASTM D-635	--	--	--	--	--	--	--	--	--	--	53.8 mm/min	47.9 mm/min	--	39.4 mm/min	--
BURNING RATE CLASS	ASTM D-635	CC1	CC2	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC1	CC2	CC2	CC2	CC2	--
SMOKE DENSITY	ASTM D-2843	--	--	--	--	--	--	--	--	--	--	73.6%		--	--	--
SMOKE DENSITY	ASTM E-84	35	70	70	70	70	100	<450	--	--	275	<450	--	--	--	--
FLAME SPREAD	ASTM E-84	5	5	5	5	5	5	55	--	--	120	90	--	--	--	--

**NOTES:**

1. LEXAN® THERMOCLEAR SHEETS ARE APPROVED FOR THE THICKNESSES AS SHOWN.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 08-0305-02  
 Expiration Date 07/17/2013  
 By [Signature]  
 Material Product Control  
 Division

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LEXAN® SHEET PRODUCTS  
**SABIC Innovative**  
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 One Plastic Avenue  
 Pittsfield, MA 01201

Gary F. Panariello  
 Professional Engineer  
 FL License No.: FE 0056153  
[Signature]  
 FEB 15 2008

no	date	by	description
0	02/15/2008	NW	REVISED DRAWING NO. 06-086

date 02/15/2008  
 scale AS NOTED  
 design by NW  
 checked by JWK  
 drawing no. 07-446  
 sheet 2 of 2