



ICC Evaluation Service, Inc.
www.icc-es.org

Business/Regional Office ■ 5360 Workman Mill Road, Whittier, California 90601 ■ (562) 699-0543
Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 599-9800
Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

Legacy report on the BOCA® National Building Code/1999

DIVISION 08 - DOORS AND WINDOWS

Section 08840 - Plastic Glazing

LEXAN® 9030, 9030T, 9034, 9038, FMR, FMR 102, S100, PROTECT-A-GLAZE®, S300, MR10, MR15, MRT, XL-10, SGC100, SG300 AND SG400 MONOLITHIC POLYCARBONATE SHEETS

LEXGARD® PL250, PL375, MPC375 LAMINATE 2-PLY POLYCARBONATE SHEETS

LEXGARD® PL500, MP750 AND MPC500 LAMINATE 3-PLY POLYCARBONATE SHEETS

LEXGARD® MP1000 AND SP1250 LAMINATE 4-PLY POLYCARBONATE SHEETS

LEXAN THERMOCLEAR® LTC 2R6 1300, LTC 2R8 1700, LTC 2R10 2000, LTC 3T16 2800, LTC 20/5RS 3300 AND LTC 25/6RS 3500, LTC 32/5X SC, LTUV 6/2RS, LTUV 8/2RS, LTS 2R8 SC, LTUV 10/2RS, LTUV 16/3TS SHEETS

LEXAN® CORRUGATED AND LEXAN® MEGA-CORRUGATED SHEETS

GENERAL ELECTRIC COMPANY
ONE PLASTICS AVENUE
PITTSFIELD, MA 01201
www.gestructureproducts.com

EVALUATION SCOPE

Compliance with the following code:

BOCA National Building Code/1999

- Section 2604.1 Approved light-transmitting plastics
Section 2406.1 Human impact loads
Section 2601.3 Application for approval
Section 803.3.2 Smoke development
Section 803.4 Required flame spread index

Compliance with the following referenced standard:

- ANSI Z97.1-84 Safety Specification and Method of Test for Safety Glazing Materials Used in Buildings

DESCRIPTION

General Electric Company's LEXAN® 9030, 9030T, 9034, 9038, FMR, FMR 102, S100, PROTECT-A-GLAZE®, S300, MR10, MR15, MRT, XL-10, SGC100, SG300 and SG400 Monolithic Polycarbonate Sheets, LEXGARD® PL250, PL375, MPC375 Laminate 2-Ply Polycarbonate Sheets, LEXGARD® PL500, MP750 and MPC500 Laminate 3-Ply Polycarbonate Sheets, LEXGARD® MP1000 and SP1250 Laminate 4-Ply Polycarbonate Sheets, LEXAN THERMOCLEAR® LTC 2R6 1300, LTC 2R8 1700, LTC 2R10 2000, LTC 3T16 2800, LTC 20/5RS 3300, LTC 25/6RS 3500, LTC 32/5X SC 3800, LTUV 6/2RS 1300, LTUV 8/2RS 1700, LTS 2R8 SC 1700, LTUV 10/2RS 1700 and LTUV 16/3TS 2800 and LEXAN® Corrugated and Mega-Corrugated Sheets are used as light-transmitting plastic sheets and safety glazing.

General Electric Company's LEXAN® THERMOCLEAR® LTC 2R6 1300, LTC 2R8 1700, LTC 2R10 2000, LTC 3T16 2800, LTC 20/5RS 3300, LTC 25/6RS 3500, LTC 32/5X SC 3800, LTUV 6/2RS 1300, LTUV 8/2RS 1700, LTS 2R8 SC 1700, LTUV 10/2RS 1700 and LTUV 16/3TS 2800 Sheets and LEXAN® Corrugated and Mega-Corrugated Sheets are used as interior finish products.

The General Electric Company's Sheets listed in this report are produced from the extrusion of bisphenol-A polycarbonate pellets, referred to as LEXAN® "103" resin by General Electric, into monolithic or hollow twin-walled sheets. The LEXAN® polycarbonate sheets, the LEXGARD® polycarbonate sheets and corrugated plastic sheets intended for use in nonstructural glazing applications which are subject to weathering. Each series contains individual products which are identified by proprietary differences. Refer to Tables 1 through 6 of this report for the description and combustibility classification of each LEXAN® and LEXGARD® Polycarbonate and Corrugated plastic sheet listed in this report.

LEXAN® 9030, 9034, 9030T, S100, 9038, S300 and PROTECT-A-GLAZE

The products listed in Table 1 of this report are monolithic polycarbonate sheets that are manufactured from a single resin source without any special coatings.

LEXAN® XL-10, SGC100, SG400 and SG300

The products listed in Table 2 of this report are monolithic polycarbonate sheets treated with a coating which is intended to be used as an anti-yellowing agent.

LEXAN® MR10, MR15 and MRT

The products listed in Table 3 of this report are monolithic polycarbonate sheets treated with two coatings which are intended to be used as anti-yellowing and abrasion-resistant agents.

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

■ LEXAN® FMR, FMR 102, LEXAN THERMOCLEAR® and LEXAN® CORRUGATED and MEGA-CORRUGATED SHEET

The products contained in Tables 4 and 5 of this report are unique because of proprietary differences and cannot be classified in Table 1, 2 or 3.

■ LEXGARD®

The LEXGARD® laminates listed in Table 6 of this report are multiple layers of monolithic LEXAN® sheets with a proprietary interlayer material between the monolithic polycarbonate sheets.

CONDITIONS OF USE

This report is limited to the applications and products as stated herein. The ICC-ES Subcommittee on National Codes intends that the report be used by the code official to determine that the report subject complies with the code requirements and the referenced standard specifically addressed, provided that this product is installed in accordance with the following conditions:

- Installation of the products shall be performed in accordance with this report and the manufacturer's installation instructions. If the manufacturer's installation instructions conflict with this report, this report is null and void.
- Use of the products in fire-resistance rated assemblies is outside the scope of this report.
- Evaluation of products as interior finish materials is limited to those listed in Table 11 of this report.
- The evaluation of the use of the products listed in this report in applications where the sheets are required to resist loads is outside the scope of this report. All necessary technical data in support of the ability of the sheets to resist the applicable design loads shall be submitted to the code official for specific approval in accordance with Section 1704.0 of the *BOCA National Building Code/1999*.
- The use of the products as a light-transmitting panel shall be subject to the installation requirements of Section 2604.0 of the *BOCA National Building Code/1999*.
- The use of the products described in this report as a safety glazing material in hazardous locations is limited to the thicknesses given in Table 8 of this report.

ITEMS REQUIRING VERIFICATION

The following items are related to the use of the report subject, but not within the scope of this evaluation. However, these items are related to the determination of code compliance:

- ✓ General Electric's Polycarbonate Sheets or the packing shall bear the product identification stated in this report.

INFORMATION SUBMITTED

- Table 7 of this report is a summary of the results of testing performed in accordance with ASTM D1929, ASTM D2843 and ASTM D635 for light-transmitting plastics.
- Table 8 of this report is a summary of the results of testing indicating that the LEXAN® 9034 and the subsequent products that use the LEXAN® 9034 as a base material in the nominal thicknesses meet the criteria for designation as a safety-glazing material when subjected to impact and weathering test requirements for plastic glazing in accordance with ANSI Z97.1.

- Tables 8, 9 and 10 of this report are a summary of the results of weathering testing. The weathering characteristics were demonstrated through tests performed in accordance with the weathering requirements of ANSI Z97.1 and Tests 2, 16, 19, 20, 22 and 23 of ANSI Z26.1-83, *Safety-Glazing Materials for Glazing Motor Vehicles Operating on Land*. The test data for ANSI Z97.1 is included in Table 8, while the data for ANSI Z26.1-83 is included in Table 9. The tests performed on the LEXAN® 9030 represent the untreated base material for all products evaluated within this report. The tests performed on the LEXAN® MRT represent the products that are treated with both the abrasion-resistant and anti-yellowing coating. Tests performed in accordance with ASTM D 638 and ASTM D 790, shown in Table 10, indicate the tensile strengths and flexural properties of the plastic after UV exposure for 360, 720 and 1,080 hours.

- Table 11 of this report is a summary of the results of testing performed in accordance with ASTM E84 for use as interior finish products.

APPLICATION FOR PERMIT

To aid in the determination of compliance with this research report, the following represents the minimum level of information to accompany the application for permit:

- The language "See ICC-ES Legacy Evaluation Report No. 22-21" or a copy of this report.
- Product manufacturer's name, product model name, color, thickness and size.
- The combustibility classification of the panel when used as light-transmitting panels.
- The type, thickness, size and location of plastic-glazing material used as safety glazing in hazardous locations.

PRODUCT IDENTIFICATION

All LEXAN® 9030, 9030T, 9034, 9038, FMR, FMR 102, S100, PROTECT-A-GLAZE®, S300, MR10, MR15, MRT, XL-10, SGC100, SG300 and SG400 Monolithic Polycarbonate Sheets, LEXGARD® PL250, PL375, MPC375 Laminate 2-Ply Polycarbonate Sheets, LEXGARD® PL500, MP750 AND MPC500 Laminate 3-Ply Polycarbonate Sheets, LEXGARD® MP1000 AND SP1250 Laminate 4-Ply Polycarbonate Sheets, LEXAN THERMOCLEAR® LTC2R6 1300, LTC 2R8 1700, LTC 2R10 2000, LTC 3T16 2800, LTC 20/5RS 3300, LTC 25/6RS 3500, LTC 32/5X SC, LTUV 6/2RS 1300, LTUV 8/2RS 1700, LTS 2R8 SC 1700, LTUV 10/2RS 1700 and LTUV 16/3TS 2800 Sheets and LEXAN® Corrugated and Mega-Corrugated Sheets, or the packaging, manufactured in accordance with this research report shall bear the following identification

- "See ICC-ES Legacy Evaluation Report No. 22-21."
- The LEXAN® and LEXGARD® sheets used as safety-glazing material in hazardous locations shall be legibly and permanently marked in one corner with the words "American National Standard Z97.1-1984" or the characters "ANSI Z97.1-1984," the thickness of the panel, and the manufacturer's distinctive mark or designation in accordance with Section 6.0 of ANSI Z97.1-1984.

Table 1 – Monolithic Polycarbonate Sheets

Product	Thickness (inches) ¹		Description	Combustibility Classification
	Minimum	Maximum		
LEXAN® 9030	1/8	1/2	Both surfaces smooth with a plastic protective wrap.	C1
LEXAN® 9034	1/8	1/2	Both surfaces smooth with a paper protective wrap.	C1
LEXAN® 9030T	1/8	1/2	Both surfaces smooth with a plastic protective wrap, specified for the transportation industry.	C1
LEXAN® S100	1/8	1/2	Both surfaces smooth with a plastic protective wrap, specified for the sign industry.	C1
LEXAN® 9038	1/8	1/2	Both surfaces have a matte surface texture.	C1
LEXAN® S300	1/8	1/2	Both surfaces have a matte surface texture specified for the sign industry.	C1
LEXAN® PROTECT-A-GLAZE® (PAG)	1/8	1/2	Both surfaces have a pebble surface texture.	C1

Note 1: 1 inch = 25.4 mm

Table 2 – Monolithic Polycarbonate Sheets with Weather-Resistant Coatings

Product	Thickness (inches) ¹		Description	Combustibility Classification
	Minimum	Maximum		
LEXAN® XL-10	1/8	1/2	Both surfaces smooth with a plastic protective wrap.	C1
LEXAN® SG400	1/8	1/2	Both surfaces smooth with a plastic protective wrap, specified for the sign industry.	C1
LEXAN® SG300	1/8	1/2	Both surfaces have a matte surface texture, specified for the sign industry.	C1
LEXAN® SGC100	1/8	1/2	Both surfaces have a matte surface texture, specified for the sign industry.	C1

Note 1: 1 inch = 25.4 mm

Table 3 – Monolithic Polycarbonate Sheets with Weather- and Abrasion-Resistant Coatings

Product	Thickness (inches) ¹		Description	Combustibility Classification
	Minimum	Maximum		
LEXAN® MR10	1/8	1/2	Both surfaces smooth.	C1
LEXAN® MRT	1/8	1/2	Both surfaces smooth, specified for the sign industry.	C1
LEXAN® MR15	1/8	1/2	Both surfaces smooth.	C1

Note 1: 1 inch = 25.4 mm

Table 4 – Description of LEXAN® FMR and FMR 104 Monolithic Polycarbonate Sheets

Product	Thickness (inches) ¹		Description	Combustibility Classification
	Minimum	Maximum		
LEXAN® FMR	1/8	1/2	This is a monolithic polycarbonate sheet that is surfaced with a coating intended for use as an abrasion-resistant agent.	C1
LEXAN® FMR 102	1/8	1/2	This is a monolithic polycarbonate sheet that is surfaced with a coating intended for use as an abrasion-resistant agent.	C1

Note 1: 1 inch = 25.4 mm

Table 5 – Description of LEXAN THERMOCLEAR® and LEXAN® Corrugated Products

Product	Thickness ¹	Description	Combustibility Classification
LEXAN THERMOCLEAR® LTC 2R6 1300 Sheet	0.236 in.	A multi walled monolithic polycarbonate sheet surfaced with a coating intended for use as an anti-yellowing agent.	C1
LEXAN THERMOCLEAR® LTC 2R8 1700	0.315 in.	A multi walled monolithic polycarbonate sheet surfaced with a coating intended for use as an anti-yellowing agent.	C1
LEXAN THERMOCLEAR® LTC 2R10 2000 Sheet	0.394 in.	A multi walled monolithic polycarbonate sheet surfaced with a coating intended for use as an anti-yellowing agent.	C1
LEXAN THERMOCLEAR® LTC3T16 2800	0.630 in.	A multi walled monolithic polycarbonate sheet surfaced with a coating intended for use as an anti-yellowing agent.	C1
LEXAN THERMOCLEAR® LTC20/5RS 3300	0.787 in.	A multi walled monolithic polycarbonate sheet surfaced with a coating intended for use as an anti-yellowing agent.	C2
LEXAN THERMOCLEAR® LTC25/6RS 3500	0.984 in.	A multi walled monolithic polycarbonate sheet surfaced with a coating intended for use as an anti-yellowing agent.	C2
LEXAN® Corrugated Sheet	0.033 in.	A monolithic polycarbonate sheet that has been treated with a coating intended for use as an anti-yellowing agent and has been formed into a corrugated shape.	C2
LEXAN® Mega-Corrugated	0.093 in.	A monolithic polycarbonate sheet that has been treated with a coating intended for use as an anti-yellowing agent and has been formed into a corrugated shape.	C1
LEXAN® THERMOCLEAR LTUV 6/2RS 1300	0.236 in.	A multi walled monolithic polycarbonate sheet surfaced on both sides with a coating intended for use as an anti-yellowing agent.	C1
LEXAN® THERMOCLEAR LTUV 8/2RS 1700	0.315 in.	A multi walled monolithic polycarbonate sheet surfaced on both sides with a coating intended for use as an anti-yellowing agent.	C1
LEXAN® THERMOCLEAR LTS 2R8 SC 1700	0.315 in.	A multi walled monolithic polycarbonate sheet surfaced on both sides with a coating intended for use as an anti-yellowing agent with interior solar control coating.	C1
LEXAN® THERMOCLEAR LTUV 10/2RS 1700	0.394 in.	A multi walled monolithic polycarbonate sheet surfaced on both sides with a coating intended for use as an anti-yellowing agent.	C1
LEXAN® THERMOCLEAR LTUV 16/3TS 2800	0.630 in.	A multi walled monolithic polycarbonate sheet surfaced on both sides with a coating intended for use as an anti-yellowing agent.	C1
LEXAN® THERMOCLEAR LTC 32/5X SC 3800	1.260 in.	A multi walled monolithic polycarbonate sheet surfaced with a coating intended for use as an anti-yellowing agent with interior solar control coating.	C1

Note 1: 1 inch = 25.4 mm

Table 6 – Description of LEXGARD Products

Product	Nominal Thickness Manufactured (inches) ¹	Description	Combustibility Classification
LEXGARD® PL250	1/4	LEXGARD® Laminate clear 2-ply panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C1
LEXGARD® PL375	3/8	LEXGARD® Laminate clear 2-Ply Panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C1
LEXGARD® MPC375	3/8	LEXGARD® Laminate clear 2-Ply Panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C1
LEXGARD® PL500	1/2	LEXGARD® Laminate clear 3-Ply Panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C1
LEXGARD® MP750	3/4	LEXGARD® Laminate clear 3-Ply Panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C2
LEXGARD® MPC500	1/2	LEXGARD® Laminate clear 3-Ply Panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C1
LEXGARD® MP1000	1	LEXGARD® Laminate clear 4-Ply Panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C1
LEXGARD® SP1250	1-1/4	LEXGARD® Laminate clear 4-Ply Panel, treated with a coating intended for use as an abrasion resistant and anti-yellowing agent.	C1

Note 1: 1 inch = 25.4 mm

Table 7 – Information Submitted

PRODUCT ¹	ASTM D635	ASTM D1929	ASTM D2843
[LEXAN® 9030], LEXAN® 9034, LEXAN® 9030T, LEXAN® S100, LEXAN® S300, LEXAN®9038, LEXAN® PROTECT-A-GLAZE® (PAG), FMR, FMR 102 <0.125 inch>	Electrical Testing Laboratories, Inc. Report #433185 dated 9/11/75	United States Testing Co. Report # LA 72202 dated 5/15/87	Electrical Testing Laboratories, Inc. Report #432722-B dated 7/23/75
[LEXAN® 9030], LEXAN® 9034, LEXAN® 9030T, LEXAN® S100, LEXAN® S300, LEXAN®9038, LEXAN® PROTECT-A-GLAZE® (PAG), FMR, FMR 102 <0.25 inch>	Electrical Testing Laboratories, Inc. Report #433186 dated 9/11/75	United States Testing Co. Report # 70304-1 dated 11/15/76	Electrical Testing Laboratories, Inc. Report #432722-A dated 7/23/75
[LEXAN® 9030], LEXAN® 9034, LEXAN® 9030T, LEXAN® S100, LEXAN® S300, LEXAN®9038, LEXAN® PROTECT-A-GLAZE® (PAG), FMR, FMR 102 <0.50 inch>	United States Testing Co. Report #117368 dated 2/21/96	United States Testing Co. Report # LA 72202 dated 5/15/87	Electrical Testing Laboratories, Inc. Report #458830 dated 3/4/83 (performed on the 9034)
[LEXAN® XL-10], LEXAN® SG300, LEXAN® SGC100, LEXAN® SG400 <0.125 inch>	United States Testing Co. Report # LA 62536-2 dated 1/23/87	United States Testing Co. Report # LA 62536-2 dated 1/23/87	United States Testing Co. Report # LA 62536-2 dated 1/23/87
[LEXAN® XL-10], LEXAN® SG300, LEXAN® SGC100, LEXAN® SG400 <0.250 inch>	United States Testing Co. Report # LA 62536-2 dated 1/23/87	United States Testing Co. Report # LA 62536-2 dated 1/23/87	United States Testing Co. Report # LA 62536-2 dated 1/23/87
[LEXAN® XL-10], LEXAN® SG300, LEXAN® SGC100, LEXAN® SG400 <0.50 inch>	Electrical Testing Laboratories Report # 457993-A dated 1/26/82 (performed on the SG300)	United States Testing Co. Report # LA 62536-2 dated 1/23/87	United States Testing Co. Report # LA 72380 dated 9/11/87
[LEXAN® MR10], Lexan® MRT <0.125 inch>	SGS U.S. Testing Co. Report #120363-8 dated 1/28/97	SGS U.S. Testing Co. Report # 120363-2 dated 1/22/97	United States Testing Co. Report #117080-3 dated 2/1/96
[LEXAN® MR10], Lexan® MRT <0.50 inch>	United States Testing Co. Report # 117080-6 dated 2/1/96	SGS U.S. Testing Co. Report # 120363-2 dated 1/22/97	SGS U.S. Testing Co. Report #120363-1 dated 1/22/97
[LEXAN® MR15], <0.093 inch>	SGS U.S. Testing Co. Report #166999-33-R1 dated 10/10/02	SGS U.S. Testing Co. Report # 166999-42 dated 05/23/02	SGS U.S. Testing Co. Report #166999-35 dated 05/09/02
[LEXAN® MR15], <0.5 inch>	SGS U.S. Testing Co. Report #166999-32 dated 05/09/02	SGS U.S. Testing Co. Report # 166999-42 dated 05/23/02	SGS U.S. Testing Co. Report #168591-1 dated 06/07/02
[Lexgard® PL250] <0.25 inch>	United States Testing Co. Report # LA 72030-5 dated 2/24/87	United States Testing Co. report # LA 72030-5 dated 2/24/87	United States Testing Co. Report # LA 72030-5 dated 2/24/87
[Lexgard® PL375] <0.25 inch>	United States Testing Co. Report # LA 72030-6 dated 2/24/87	United States Testing Co. Report # LA 72030-6 dated 2/24/87	United States Testing Co. Report # LA 72030-6 dated 2/24/87
[Lexgard® MPC375] <0.25 inch>	United States Testing Co. Report # 89667-2R1 dated 12/1/86	United States Testing Co. Report # 90477-14R dated 12/1/86	United States Testing Co. Report # 89667-3A dated 12/1/86
[Lexgard® PL500] <0.50 inch>	United States Testing Co. Report # LA 72030-3 dated 2/19/87	United States Testing Co. Report # LA 72030-3 dated 2/19/87	United States Testing Co. Report # LA 72030-3 dated 2/19/87
[Lexgard® MP750] <0.75 inch>	United States Testing Co. Report # 91927-3 dated 1/2/86	United States Testing Co. Report # 91927-1A dated 12/1/86	United States Testing Co. Report # LA 72030-2 dated 02/24/87
[Lexgard® MPC500] <0.50 inch>	United States Testing Co. Report # 89667-2R2 dated 12/1/86	United States Testing Co. Report # 90477-15R dated 12/1/86	United States Testing Co. Report # 89667-3B dated 12/1/86

Table 7 – Information Submitted

PRODUCT ¹	ASTM D635	ASTM D1929	ASTM D2843
[Lexgard® MP1000] <1 inch>	United States Testing Co. Report # 91927-3 dated 12/2/86	United States Testing Co. Report # 91927-1B dated 12/1/86	United States Testing Co. Report # 91927-2B dated 12/1/86
[Lexgard® SP1250] <1.25 inches>	United States Testing Co. Report # 89667-2R3 dated 12/1/86	United States Testing Co. Report # 90477-16 dated 9/9/85	United States Testing Co. Report # LA 72030-1 dated 02/24/87
[Lexan Thermoclear® LTC 2R6 1300 Sheet] <0.236 inch>	SGS U.S. Testing Co. Report #136500-08/09 dated 7/15/97	SGS U.S. Testing Co. Report #112213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan Thermoclear® LTC 2R8 1700 Sheet] <0.315 inch>	SGS U.S. Testing Co. Report #136500-16/17 dated 2/11/00	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan Thermoclear® LTC 2R10 2000 Sheet] <0.394 inch>	SGS U.S. Testing Co. Report #136500-14/15 dated 2/11/00	SGS U.S. Testing Co. Report #112213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan Thermoclear® LTC 3T16 2800 Sheet] <0.630 inch>	SGS U.S. Testing Co. Report # 166999-46 dated 05/28/02	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan Thermoclear® LTC 20/4RS 3300 Sheet] <0.787 inch>	SGS U.S. Testing Co. Report #115430-3 dated 7/3/95	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	SGS U.S. Testing Co. Report #115430-6 dated 8/3/95
[Lexan Thermoclear® LTC 25/6RS 3500 Sheet] <0.984 inch>	SGS U.S. Testing Co. Report #102718-3 dated 2/6/98	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	SGS U.S. Testing Co. Report #102718-4 dated 2/6/98
[LEXAN® Corrugated Sheet] <0.030 inch>	United States Testing Co. Report #102016-2 dated 9/16/91	United States Testing Co. Report#102016-3 dated 9/16/91	United States Testing Co. Report #102016-1 dated 9/16/91
[LEXAN® Mega-Corrugated Sheet] <0.093 inch>	SGS U.S. Testing Co. Report # 166999-1 dated 04/24/02	SGS U.S. Testing Co. Report # 166999-41 dated 05/23/02	(See Table 11 for equivalent test)
[Lexan® Thermoclear LTUV 6/2RS 1300] <0.236 inch>	SGS U.S. Testing Co. Report # 162031-5 dated 11/26/01	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan® Thermoclear LTUV 8/2RS 1700] <0.315>	SGS U.S. Testing Co. Report # 169480-1-R1 dated 02/12/02	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan® Thermoclear LTS 2R8 SC 1700] <0.315 inch>	SGS U.S. Testing Co. Report # 166999-2 dated 04/24/02	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan® Thermoclear LTUV 10/2RS 1700] <0.394>	SGS U.S. Testing Co. Report # 169480-3 dated 12/12/02	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan® Thermoclear LTUV 16/3TS 2800] <0.630 inch>	SGS U.S. Testing Co. Report # 162031-1 dated 11/26/01	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)
[Lexan® Thermoclear LTUV 32/6X SC 3800] <1.260 inch>	SGS U.S. Testing Co. Report # 162031-3 dated 11/26/01	SGS U.S. Testing Co. Report #122213-7 dated 10/4/94	(See Table 11 for equivalent test)

Table 8 – ANSI Z97.1 Test Results for LEXAN® 9034

Thickness ¹ (in.)	Testing Agency	Test Report Number	Test Date
0.093	Electrical Testing Laboratories, Inc.	#428159	5/28/74
0.125	Electrical Testing Laboratories, Inc.	#417613	8/4/71
0.187	Electrical Testing Laboratories, Inc.	#415792	8/4/71
0.250	Electrical Testing Laboratories, Inc.	#415790	8/3/71
0.500	Electrical Testing Laboratories, Inc.	#428158	5/28/74

Note 1: 1 inch = 25.4 mm

A class C1 product has a burning extent of 1 inch or less when tested at a nominal thickness of 0.060 inch, or in the thickness intended for use, in accordance with ASTM D635. A class C2 product has a burning extent of 2.5 inches per minute or less when tested at a nominal thickness of 0.060 inch, or the thickness intended for use, in accordance with ASTM D635.

Table 9 – Weathering Tests

Product	Thickness (in.)		Test Laboratory	Test(s) Performed
	Minimum	Maximum		
LEXAN® 9030T	0.04	0.5	Electrical Testing Laboratories, Inc., Report Numbers 470009 and 470010; dated 9/30/85	ANSI Z26.1 Tests 2, 16, 19, 20, 22, 24
LEXAN® MRT	0.125	0.5	Electrical Testing Laboratories, Inc., Report Numbers 491953 and 471954; dated 6/1/89	ANSI Z26.1 Tests 2,10, 13, 16, 17, 19, 20, 21, 22, 24

Note 1: 1 inch = 25.4 mm

Table 10 – Tensile Strength Tests

Product	Thickness (in.)	Test Laboratory	Test(s) Performed
LEXAN® 9034	0.112	ABD Engineers and Surveyors, dated 11/15/90	ASTM D790, ASTM D638
LEXAN® XL-10	0.117	ABD Engineers and Surveyors, dated 11/27/90	ASTM D790, ASTM D638

Note 1: 1 inch = 25.4 mm

Table 11 – Materials tested in accordance with ASTM E 84

Product	Test Laboratory	Interior Finish Classification
LEXAN® Corrugated Sheet, 0.040-inches	United States Testing Company, Inc., Report Number 106902; dated 2/25/93	Class I
LEXAN® Thermoclear® LTC 2R6 1300 Sheet	SGS U.S. Testing Co., Report Number 141438,g; dated 6/6/00	Class I
LEXAN® Thermoclear® LTC 2R8 1700 Sheet	SGS U.S. Testing Co., Report # 138074-1; dated 5/21/00	Class I
LEXAN® Thermoclear® LTC 2R10 2000 Sheet	SGS U.S. Testing Co., Report # 139074-2; dated 3/21/00	Class I
LEXAN® Mega-Corrugated	SGS U.S. Testing Co., Report # 168240-9; dated 7/17/02	Class I
LEXAN® Thermoclear® LTC 3T16 2800	SGS U.S. Testing Co., Report # 166999-44; dated 5/28 /02	Class 2
LEXAN® Thermoclear® LTUV 6/2RS 1300	SGS U.S. Testing Co., Report # 162734-1; dated 12/17/01	Class I
LEXAN® Thermoclear® LTUV 8/2RS 1700	SGS U.S. Testing Co., Report # 170262; dated 8/22/02	Class I
LEXAN® Thermoclear® LTS 2R8 SC 1700	SGS U.S. Testing Co., Report # 167094; dated 4/22/02	Class I
LEXAN® Thermoclear® LTUV 10/2RS 1700	SGS U.S. Testing Co., Report # 162734-3; dated 12/17/01	Class I
LEXAN® Thermoclear® LTUV 16/3TS 2800	SGS U.S. Testing Co., Report # 162734-5; dated 12/17/01	Class 2
LEXAN® Thermoclear® LTUV 32/6X SC 3800	SGS U.S. Testing Co., Report # 162734-4; dated 12/17/01	Class 3
LEXAN® Thermoclear® LTC 25/6RS 3500	SGS U.S. Testing Co., Report # 102718-2; dated 2/6/98	Class 3
LEXAN® 9030-0.060 in.	United States Testing Company, Inc., Report Number 600675-1; dated 4/15/94	Class 1
LEXAN® 9030-0.125 in.	United States Testing Company, Inc., Report Number 101676-1; dated 7/22/91	Class 2