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ASTM D 635-14 Horizontal Burning Rate Determination of "Marlon FS 1.5mm Clear" Polycarbonate Sheet

A Report To:	**Brett Martin Ltd.** 24 Roughfort Road Mallusk, Co. Antrim United Kingdom BT36 4RB
Phone:	+44 28 9084 9999
Attention:	Simona Firth
E-mail:	simonafirth@brettmartin.com
Submitted by:	Exova Warringtonfire North America
Report No.	17-002-307(B2) 3 pages
Date:	May 30, 2017

ACCREDITATION To ISO/IEC 17025 for a defined Scope of testing by the International Accreditation Service

SPECIFICATIONS OF ORDER

Determine rate of burning and/or extent and time of burning plastics in a horizontal position according to ASTM D 635-14 as per Exova Warringtonfire North America Quotation No. 17-002-496410RV1 dated May 11, 2017.

(Exova sample identification number 17-002-S0307-2)

SAMPLE IDENTIFICATION

Plastic material described as, "Clear flat sheet polycarbonate" and identified as, "Marlon FS 1.5mm Clear".

SUMMARY OF TEST PROCEDURE

Specimens are conditioned for at least 48 hours at 23 ± 2°C and 50 ± 5% relative humidity prior to testing.

At least tem specimens, 125 x 12.5 mm, are each marked at 25 mm and 100 mm from one end. Each specimen is clamped horizontally at the end nearest the 100 mm mark, with its transverse axis incline at 45 ± 2° to the horizontal. A 100 mm square wire gauze screen is clamped in a horizontal poistion, 10 mm below the dge of the specimen, with approximately 13 mm of the specimen extending beyond its edge.

A 20 mm high blue flame from a burner is applied to th eend of the specimen for a period of 30 seconds, or whenever the flame front reaches the 25 mm mark, whichever comes first. The times to reach the 25 mm mark and the 100 mm mark, or when burning ceases are recorded, and the extent of burning measured. Repeat the test procedure until three specimens have burned to 100 mm ref mark, or then have been tested. The behavior of specimens shall be classified as HB (HB = Horizontal Burning) if:

* There are no visible signs of combustion after the ignition source is removed, or
* The flame front does not pass the 25 mm reference mark, or
* The flame front passes the 25 mm reference mark but does not reach the 100 mm reference mark, or
* The flame front reaches the 100 mm reference mark and the linear burning rate does not exceed 40 mm/min for specimens having a thickness between 3 and 13 mm or 75 mm/min for specimens having a thickness less than 3 mm.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire hazards or fire risk assessment of materials, products, or assemblies under actual fire conditions.

TEST RESULTS

ASTM D 635-14

Standard test method for Rate of Burning and/or Extent
and Time of Burning of Plastics in a Horizontal Position

Test	Time of Burning (s)	Extent of Burning (mm)	Linear Burn Rate (mm/min)	Cont. Burning of Specimens (Yes/No?)	Flame Reached 25 mm mark (Yes/No?)	Flame Reached 100 mm Mark (YesNo?)
1	0.0	0.0	-	No	No	No
2	0.0	0.0	-	No	No	No
3	0.0	0.0	-	No	No	No
4	0.0	0.0	-	No	No	No
5	0.0	0.0	-	No	No	No
6	0.0	0.0	-	No	No	No
7	0.0	0.0	-	No	No	No
8	0.0	0.0	-	No	No	No
9	0.0	0.0	-	No	No	No
10	0.0	0.0	-	No	No	No

* A - No Ignition (NI)

B - Self-extinguishing/no burn rate (SE/NBR) (self-extinguishes prior to reaching into the 10-inch (254 mm) timing zone)

C - Burn rate and self-extinguishing (specimen burns into the 10-inch (254 mm) time zone and self-extinguishes)

D - Burn rate (burn continued over the entire 10-inch (254 mm) timing zone)

CONCLUSIONS

When tested at a approximate thickness of 1.5 mm, the material identified in this report meets the requirements to be classified HB.

Note: This is an uncontrolled electronic copy of the report. Signatures are on file with the original.

Serap Carpino,
Technologist

Ian Smith,
Technical Manager.

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ASTM D 635-14 Horizontal Burning Rate Determination of "Marlon FS 1.5mm Opal" Polycarbonate Sheet

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(Exova sample identification number 17-002-S0307-1)

SAMPLE IDENTIFICATION

Plastic material described as, "Opal flat sheet polycarbonate" and identified as, "Marlon FS 1.5mm Opal".

SUMMARY OF TEST PROCEDURE

Specimens are conditioned for at least 48 hours at 23 ± 2°C and 50 ± 5% relative humidity prior to testing.

At least tem specimens, 125 x 12.5 mm, are each marked at 25 mm and 100 mm from one end. Each specimen is clamped horizontally at the end nearest the 100 mm mark, with its transverse axis incline at 45 ± 2° to the horizontal. A 100 mm square wire gauze screen is clamped in a horizontal poistion, 10 mm below the dge of the specimen, with approximately 13 mm of the specimen extending beyond its edge.

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This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire hazards or fire risk assessment of materials, products, or assemblies under actual fire conditions.

TEST RESULTS

ASTM D 635-14

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Test	Time of Burning (s)	Extent of Burning (mm)	Linear Burn Rate (mm/min)	Cont. Burning of Specimens (Yes/No?)	Flame Reached 25 mm mark (Yes/No?)	Flame Reached 100 mm Mark (YesNo?)
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2	0.0	0.0	-	No	No	No
3	0.0	0.0	-	No	No	No
4	0.0	0.0	-	No	No	No
5	0.0	0.0	-	No	No	No
6	0.0	0.0	-	No	No	No
7	0.0	0.0	-	No	No	No
8	0.0	0.0	-	No	No	No
9	0.0	0.0	-	No	No	No
10	0.0	0.0	-	No	No	No

* A - No Ignition (NI)

B - Self-extinguishing/no burn rate (SE/NBR) (self-extinguishes prior to reaching into the 10-inch (254 mm) timing zone)

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CONCLUSIONS

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ASTM E 84 Surface Burning Characteristics of "Marlon FS 1.5mm Opal" Polycarbonate Sheet

A Report To:	**Brett Martin Ltd.** 24 Roughfort Road Mallusk, Co. Antrim United Kingdom BT36 4RB
Phone:	+44 28 9084 9999
Attention:	Simona Firth
E-mail:	simonafirth@brettmartin.com
Submitted by:	Exova Warringtonfire North America
Report No.	17-002-307(A1) 4 Pages
Date:	June 16, 2017

ACCREDITATION To ISO/IEC 17025 for a defined Scope of Testing by the International Accreditation Service

SPECIFICATIONS OF ORDER

Determine the Flame Spread and Smoke Developed Indices based upon a single test conducted in accordance with ASTM E 84-16, as per Exova Warringtonfire North America Quotation No. 17-002-496,410 RV1 dated May 11, 2017.

SAMPLE IDENTIFICATION (Exova sample identification number 17-002-S0307-1)

Plastic sheet material, described as, "Opal flat sheet polycarbonate", identified as: "Marlon FS 1.5mm Opal"

TEST PROCEDURE

The method, designated as ASTM E 84-16 "*Standard Method of Test for Surface Burning Characteristics of Building Materials*", is designed to determine the relative surface burning characteristics of materials under specific test conditions, where the material under test is mounted so that it forms the ceiling of a horizontal fire tunnel. A specified airflow is introduced through the tunnel and a specified flame is applied to one end. Observations are then made regarding the flame spread along the specimen. Results are expressed in terms of Flame Spread Index (FSI) and Smoke Developed Index (SDI). There is no established relationship between those two values.

Although the procedure is applicable to materials, products and assemblies used in building construction for development of comparative surface spread of flame data, the test results may not reflect the relative surface burning characteristics of tested materials under all building fire conditions.

SAMPLE PREPARATION

The test specimen consisted of a total of 3 sections of material, each approximately 0.06 inches (1.5 mm) in thickness by 21 inches (533 mm) in width by 96 inches (2438 mm) in length. The sections were butted together to create the specimen length. Prior to testing, the specimen was conditioned to constant weight at a temperature of 73 ± 5°F (23 ± 3°C) and a relative humidity of 50 ± 5%. During testing, the specimen was supported across its width by 0.25 inch (6 mm) steel rods spaced nominally at 24 inch (610 mm) intervals.

The testing was performed on: 2017-06-09

SUMMARY OF TEST PROCEDURE

The tunnel is preheated to 150 ± 5°F (66 ± 2.8°C), as measured by the floor-embedded thermocouple located 23.25 feet (7087 mm) downstream of the burner ports, and is allowed to cool to 105 ± 5°F (40.5 ± 2.8°C), as measured by the floor-embedded thermocouple located 13 feet (3962 mm) from the burners. The tunnel lid is then raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 24 feet (7315 mm) long, approximately 12 inches (305 mm) above the floor. Three 8 foot (2438 mm) sections of 0.25 inch (6 mm) cement board are then placed on the back side of the sample and the lid is then lowered into place.

SUMMARY OF TEST PROCEDURE (continued)

Upon ignition of the gas burners, the flame spread distance is observed and recorded every second. Flame spread distance versus time is plotted. Calculations ignore all flame front recessions and Flame Spread Index (FSI) is determined by calculating the total area under the curve for the test sample. If the area under the curve (A) is less than or equal to 97.5 min·ft, then FSI = 0.515·A; if greater, FSI = 4900/(195-A). FSI is then rounded to the nearest multiple of 5.
Smoke Developed Index (SDI) is determined by dividing the total area under the obscuration curve by that of red oak, and multiplying by 100. SDI is then rounded to the nearest multiple of 5 if less than 200. SDI values over 200 are rounded to the nearest multiple of 5.

TEST RESULTS

SAMPLE	Flame Spread Index (FSI)	Smoke Developed Index (SDI)
"Marlon FS 1.5mm Opal"	5	250

Observations of Burning Characteristics

The specimen ignited approximately 44 seconds after exposure to the test flame. Melting and dripping behavior was observed. Material that dripped to the floor of the test apparatus also ignited.

The flame front advanced to a maximum observed distance of 2.2 feet (0.7 metres) at approximately 531 seconds.

Interpretation of Test Results

Industry documents such as the International Building Code (IBC) or NFPA 101 Life Safety Code refer to ASTM E 84 (UL 723, NFPA 255) test results using the following material classification categories:

	Flame-Spread Index (FSI)	Smoke Development Index (SDI)
Class 1 or Class A	0 - 25	450 Maximum
Class 2 or Class B	26 - 75	450 Maximum
Class 3 or Class C	76 - 200	450 Maximum

Results Classification (if applicable):	Class 1 or Class A

Note: This is an uncontrolled electronic copy of the report. Signatures are on file with the original.

Francis Williams,
Technician.

Ian Smith,
Technical Manager.

Note: This report and service are covered under Exova Canada Inc. Standard Terms and Conditions of Contract which may be found on the Exova website (www.exova.com), or by calling 1-866-263-9268.

Exova

ASTM E 84-16 Test Charts

Sample: "Marlon FS 1.5mm Opal"

Chart 1. FLAME SPREAD

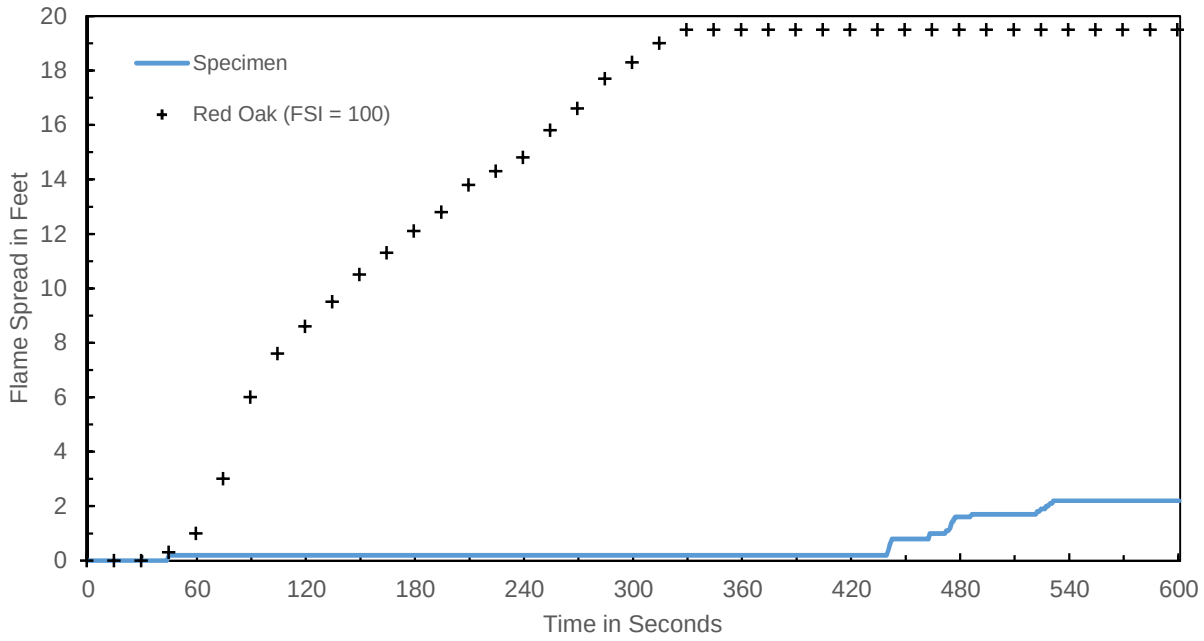
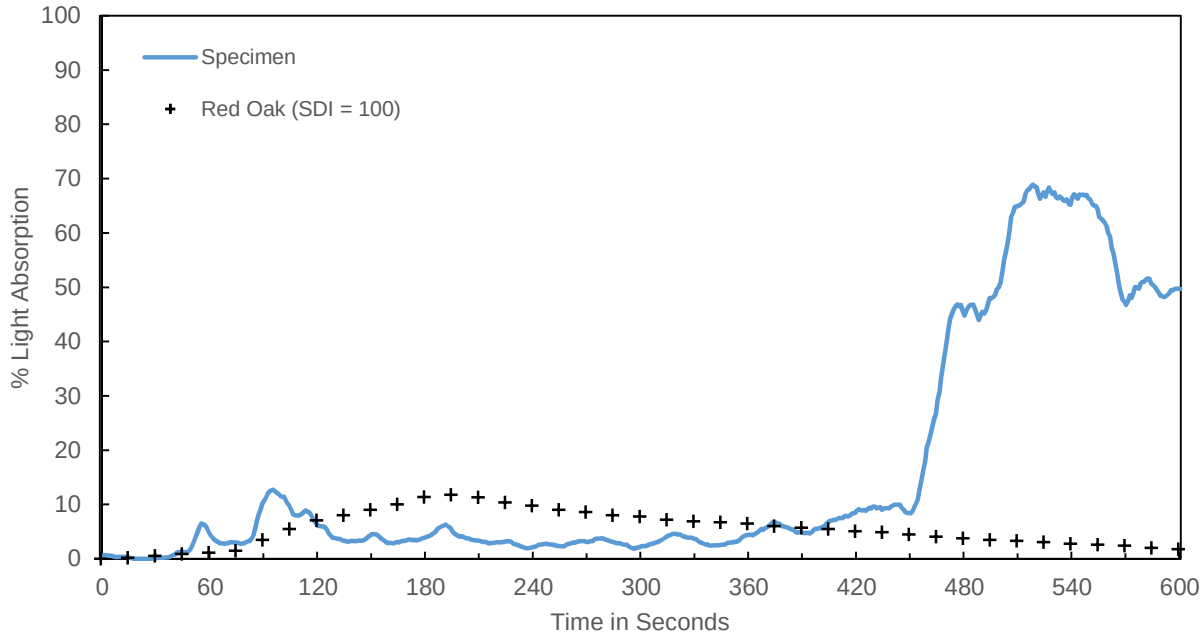


Chart 2. SMOKE DEVELOPED



Calculated Flame Spread (CFS)	Rounded Flame Spread Index (FSI)	Calculated Smoke Developed (CSD)	Rounded Smoke Developed Index (SDI)	Maximum 23' Air Temperature (°F)
3.1	**5**	262.9	**250**	411

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TEST PROCEDURE

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Although the procedure is applicable to materials, products and assemblies used in building construction for development of comparative surface spread of flame data, the test results may not reflect the relative surface burning characteristics of tested materials under all building fire conditions.

SAMPLE PREPARATION

The test specimen consisted of a total of 3 sections of material, each approximately 0.06 inches (1.5 mm) in thickness by 21 inches (533 mm) in width by 96 inches (2438 mm) in length. The sections were butted together to create the specimen length. Prior to testing, the specimen was conditioned to constant weight at a temperature of 73 ± 5°F (23 ± 3°C) and a relative humidity of 50 ± 5%. During testing, the specimen was supported across its width by 0.25 inch (6 mm) steel rods spaced nominally at 24 inch (610 mm) intervals.

The testing was performed on: 2017-06-09

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The tunnel is preheated to 150 ± 5°F (66 ± 2.8°C), as measured by the floor-embedded thermocouple located 23.25 feet (7087 mm) downstream of the burner ports, and is allowed to cool to 105 ± 5°F (40.5 ± 2.8°C), as measured by the floor-embedded thermocouple located 13 feet (3962 mm) from the burners. The tunnel lid is then raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 24 feet (7315 mm) long, approximately 12 inches (305 mm) above the floor. Three 8 foot (2438 mm) sections of 0.25 inch (6 mm) cement board are then placed on the back side of the sample and the lid is then lowered into place.

SUMMARY OF TEST PROCEDURE (continued)

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TEST RESULTS

SAMPLE	Flame Spread Index (FSI)	Smoke Developed Index (SDI)
"Marlon FS 1.5mm Clear"	5	200

Observations of Burning Characteristics

The specimen ignited approximately 35 seconds after exposure to the test flame. Melting and dripping behavior was observed. Material that dripped to the floor of the test apparatus also ignited.

The flame front advanced to a maximum observed distance of 7.8 feet (2.4 metres) at approximately 596 seconds.

Interpretation of Test Results

Industry documents such as the International Building Code (IBC) or NFPA 101 Life Safety Code refer to ASTM E 84 (UL 723, NFPA 255) test results using the following material classification categories:

	Flame-Spread Index (FSI)	Smoke Development Index (SDI)
Class 1 or Class A	0 - 25	450 Maximum
Class 2 or Class B	26 - 75	450 Maximum
Class 3 or Class C	76 - 200	450 Maximum

Results Classification (if applicable):	Class 1 or Class A

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Francis Williams,
Technician.

Ian Smith,
Technical Manager.

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ASTM E 84-16 Test Charts

Sample: "Marlon FS 1.5mm Clear"

Chart 1. FLAME SPREAD

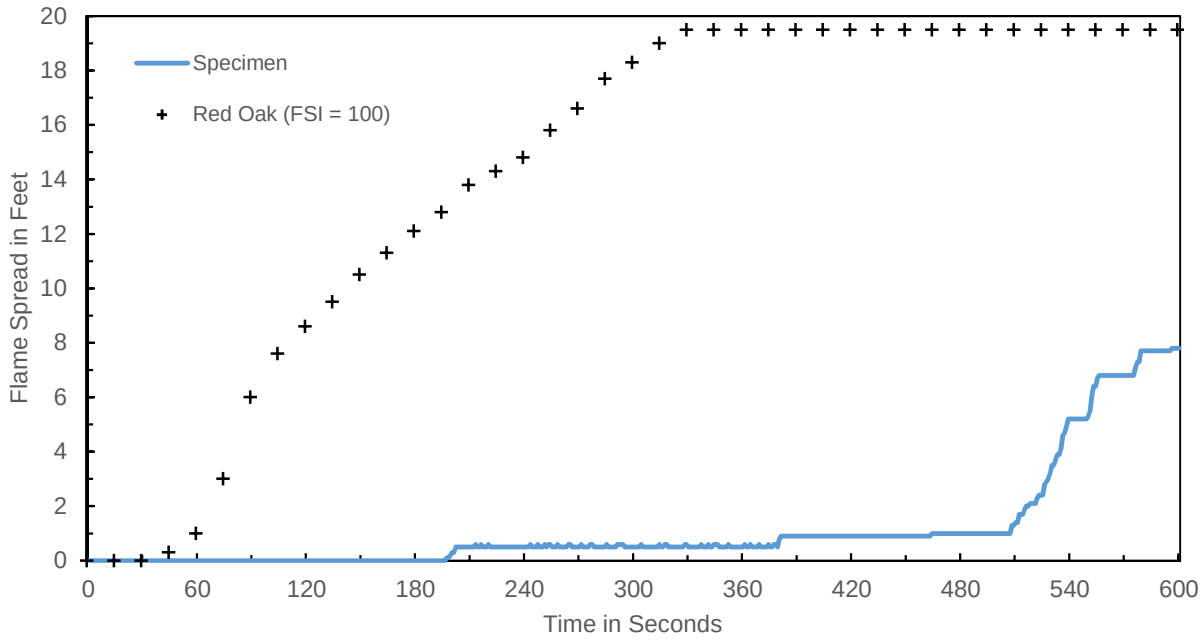
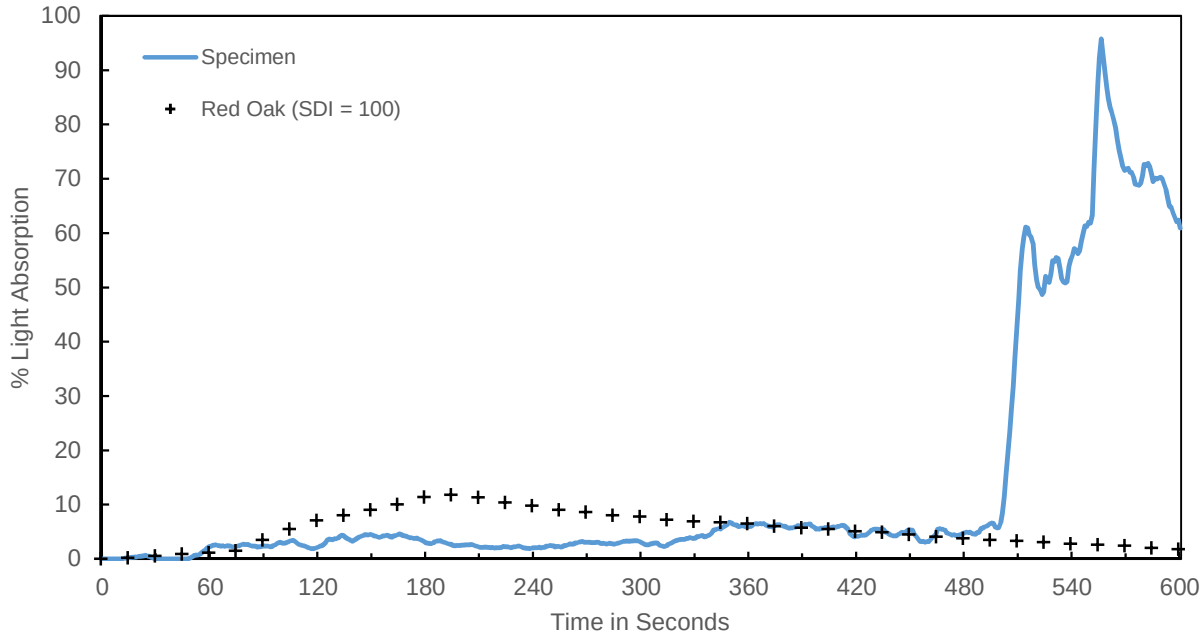


Chart 2. SMOKE DEVELOPED



Calculated Flame Spread (CFS)	Rounded Flame Spread Index (FSI)	Calculated Smoke Developed (CSD)	Rounded Smoke Developed Index (SDI)	Maximum 23' Air Temperature (°F)
6.2	**5**	212.2	**200**	554

Makrolon® SL sheet

UV resistant sign grade

Makrolon® SL Sign Grade sheet is a polycarbonate product with an advanced UV resistance technology that promotes long lasting outdoor weathering performance. It features outstanding impact strength, excellent dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate. Makrolon SL is offered in clear, a wide range of standard sign colors, or can be custom matched to any color. The product, available in either sheet or reels, has a proven track record of outstanding performance in extreme environments and meets the UL 879 standard for electric sign components. A ten (10) year limited product warranty is available for both clear and colors for breakage resistance. Clear sheet is also covered for weathering resistance. The terms of the warranty are available upon request.

Applications

Flat and formed sign faces and channel letters

Regulatory code compliance and certifications

UL 879: Electric Sign Components, UL File #E146154

UL 94: Flammability, UL File #E351891

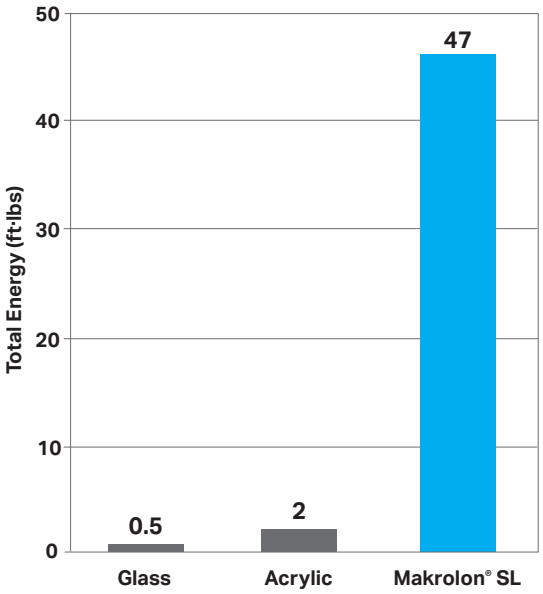
Miami-Dade NOA No. 16-1024.01
Florida Building Code 2014
High Velocity Hurricane Zone Classified

Typical Properties

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D 792	–	1.2
Refractive Index	ASTM D 542	–	1.586
Light Transmission, Clear @ 0.118″	ASTM D 1003	%	86
Light Transmission, B59 White @ 0.118″	ASTM D 1003	%	27
Light Transmission, B54 White @ 0.150″ and 0.177″	ASTM D 1003	%	27
Water Absorption, 24 hours	ASTM D 570	%	0.15
Poisson's Ratio	ASTM E 132	–	0.38
MECHANICAL			
Tensile Strength, Ultimate	ASTM D 638	psi	9,500
Tensile Strength, Yield	ASTM D 638	psi	9,000
Tensile Modulus	ASTM D 638	psi	340,000
Elongation	ASTM D 638	%	110
Flexural Strength	ASTM D 790	psi	13,500
Flexural Modulus	ASTM D 790	psi	345,000
Compressive Strength	ASTM D 695	psi	12,500
Compressive Modulus	ASTM D 695	psi	345,000
Izod Impact Strength, Notched @ 0.125″	ASTM D 256	ft·lbs/in	18
Izod Impact Strength, Unnotched @ 0.125″	ASTM D 256	ft·lbs/in	60 (no break)
Instrumented Impact @ 0.125″	ASTM D 3763	ft·lbs	47
Shear Strength, Ultimate	ASTM D 732	psi	10,000
Shear Strength, Yield	ASTM D 732	psi	6,000
Shear Modulus	ASTM D 732	psi	114,000
Rockwell Hardness	ASTM D 785	–	M70 / R118
THERMAL			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75×10^{-5}
Coefficient of Thermal Conductivity	ASTM C 177	BTU·in/hr·ft^2·°F	1.35
Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D 648	°F	280
Brittleness Temperature	ASTM D 746	°F	-200
ELECTRICAL			
Dielectric Constant @ 10 Hz	ASTM D 150	–	2.96
Dielectric Constant @ 60 Hz	ASTM D 150	–	3.17
Volume Resistivity	ASTM D 257	Ohm·cm	8.2×10^{16}
Dissipation Factor @ 60 Hz	ASTM D 150	–	0.0009
Arc Resistance	–	–	–
Stainless Steel Strip electrode	ASTM D 495	Seconds	10
Tungsten Electrodes	ASTM D 495	Seconds	120
Dielectric Strength, in air @ 0.125″	ASTM D 149	V/mil	380
FLAMMABILITY			
Horizontal Burn, AEB	ASTM D 635	in.	<1
Flame Class @ 0.060″	UL 94	–	HB
Ignition Temperature, Self	ASTM D 1929	°F	1022
Ignition Temperature, Flash	ASTM D 1929	°F	824

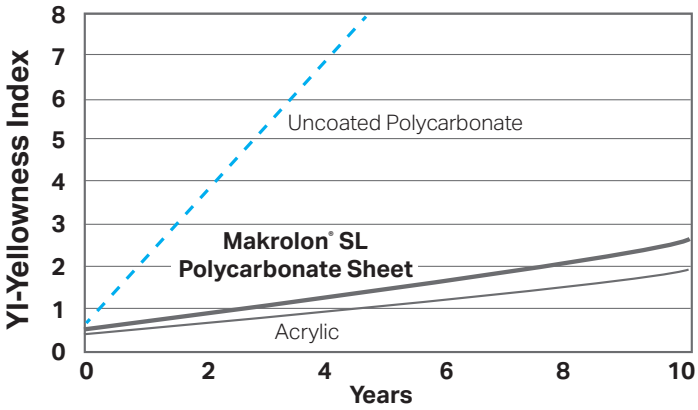
Makrolon® SL sheet

Impact Resistance*



*Instrumented Impact per ASTM D 3763, sample thickness 0.125˝ nominal

UV Weather Resistance



Visible yellowness at 8 or greater

Makrolon® SL Standard Colors

Standard Covestro Color	Standard Industry Color	Standard Gauge
Clear/ A00	–	0.093˝ - 0.236˝
White/ B59	7328	0.093˝ - 0.118˝
White/ B54	7328	0.150˝ - 0.236˝
Red/ D92	6192	0.118˝ - 0.177˝

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