

CLIENT: Sabic Innovative Plastics US LLC
1 Lexan Lane
Mount Vernon, IL 47620

Attn: Constantin Donea

Test Report No: 654:0281839-11	Date: November 6, 2009
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SUBJECT: Testing to ASTM D 635

SAMPLE ID: Sample identified as “**20mm – with ribbing**” was received from the client on 9/24/09 in good condition. The sample was described by the manufacturer of containing the following items:

- **Sample: Lexan Thermoclear 20mm Sheet, commercialized under the grade names LTP5X20, 2XP5X20, LPD5X20, LED5X20, LXE5X20, LXD5X20**

TEST REQUESTED: The submitted sample was tested for Rate of Burning and/or extent of time of burning of plastics in a horizontal position in accordance to procedures outlined in ASTM D 635-06.

PREPARATION: The sample material was submitted in ten pieces, 13mm x 20mm x 127mm

TEST DATE: 11/6/09

RESULTS: Results can be found on the following pages and apply only to the sample tested.

CLASSIFICATION: CC1

**SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.**

KSM



Cody Allen
Engineering Technician



J. Brian McDonald
Fire Technology Department Manager

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SAMPLE: 20mm – with ribbing **TEST DATE:** 11/6/09 **Equipment Number:** 061-10
Conditioning Treatment: 69.8 – 77.0 °F Relative Humidity: 50 ± 5% for 48 hours
Temperature and Humidity at time of Testing: 71.0°F Relative Humidity: 52%

DATA:

<u>Specimen Number</u>	<u>Dimensions (mm)</u>	<u>Burning Time (Sec)</u>	<u>Burned Length (mm)</u>	<u>Burn Rate (mm/min)</u>
1	127 x 13 x 20	_*	_*	_*
2	127 x 13 x 20	_*	_*	_*
3	127 x 13 x 20	6	12	2
4	127 x 13 x 20	6	7	1.167
5	127 x 13 x 20	_*	_*	_*
6	127 x 13 x 20	_*	_*	_*
7	127 x 13 x 20	8	10.4	1.3
8	127 x 13 x 20	_*	_*	_*
9	127 x 13 x 20	_*	_*	_*
10	127 x 13 x 20	_*	_*	_*
AVERAGE	127 x 13 x 20	2	2.94	.447

* - Specimen ceases to burn before reaching the 25mm gauge mark

Observations: Specimens stopped burning once the flame was removed.

NOTES:

Class CC1: "Plastic materials that have a burning extent of 1 inch (25.4mm) or less where tested at a normal thickness of 0.060 inch (1.5mm), or in the thickness intended for use, in accordance with ASTM D 635"

Class CC2: "Plastic materials that have a burning rate of 2.5 inches (1.06mm) or less where tested at a normal thickness of 0.060 inch (1.5mm), or in the thickness intended for use, in accordance with ASTM D 635"

CBC: Cannot Be Classified. This description is for any test results that do not meet CC1 or CC2 criteria.

The CC rating is in accordance with the International Building Code-2006.

End of Report

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