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

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

KSM
Cody Allen
Engineering Technician

J. Brian McDonald
Fire Technology Department Manager

Page 1 of 2
### Sample: 20mm - with ribbing  
### Test Date: 11/6/09  
Conditioning Treatment: 69.8 – 77.0 °F  
Temperature and Humidity at time of Testing: 71.0°F  
### Equipment Number: 061-10  
Relative Humidity: 50 ± 5% for 48 hours  
Relative Humidity: 52%  
### Data:

<table>
<thead>
<tr>
<th>Specimen Number</th>
<th>Dimensions (mm)</th>
<th>Burning Time (Sec)</th>
<th>Burned Length (mm)</th>
<th>Burn Rate (mm/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>127 x 13 x 20</td>
<td>-*</td>
<td>-*</td>
<td>-*</td>
</tr>
<tr>
<td>2</td>
<td>127 x 13 x 20</td>
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</tr>
<tr>
<td>3</td>
<td>127 x 13 x 20</td>
<td>6</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>127 x 13 x 20</td>
<td>6</td>
<td>7</td>
<td>1.167</td>
</tr>
<tr>
<td>5</td>
<td>127 x 13 x 20</td>
<td>-*</td>
<td>-*</td>
<td>-*</td>
</tr>
<tr>
<td>6</td>
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<td>7</td>
<td>127 x 13 x 20</td>
<td>8</td>
<td>10.4</td>
<td>1.3</td>
</tr>
<tr>
<td>8</td>
<td>127 x 13 x 20</td>
<td>-*</td>
<td>-*</td>
<td>-*</td>
</tr>
<tr>
<td>9</td>
<td>127 x 13 x 20</td>
<td>-*</td>
<td>-*</td>
<td>-*</td>
</tr>
<tr>
<td>10</td>
<td>127 x 13 x 20</td>
<td>-*</td>
<td>-*</td>
<td>-*</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>127 x 13 x 20</strong></td>
<td><strong>2</strong></td>
<td><strong>2.94</strong></td>
<td><strong>.447</strong></td>
</tr>
</tbody>
</table>

* - 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.