

PLASTICS

TECHNOLOGY
LABORATORIES, INC.

March 19, 2008

Mr. Ajit Ranade
SABIC Innovative Plastics US LLC
One Lexan Lane
Mt. Vernon, IN 47620
USA

PO # Y44959001

PTLI # P20080934
P20081063
P20081193

Dear Mr. Ranade:

Enclosed you will find results of the testing you requested.

If you have any questions regarding the data, please do not hesitate to contact me.

Sincerely,



James A. Koehler
Quality Manager

JAK/jd

Enclosures

PLASTICS

TECHNOLOGY
LABORATORIES, INC.

Testing : Rate Of Burning And/Or Extent And Time Of Burning Of Plastics - Horizontal Position
 Test Method : ASTM D635-06
 Project Number : P20080934, P20081063, P20081193
 Customer : SABIC Innovative Plastics US, LLC
 Attention : Ajit Ranade
 Analyst : D. Loehr and J. McCarthy
 Date : March 17, 2008



Material : **LTC2R45 LTD2R45 LTT2R45 LTR2R45 VT24510**
 Test Direction : **Machine Direction**
 Thickness : **4.5 mm**
 Sample Conditioning : **48+ hours At 23°C ± 2°C / 50% ± 5% RH**
 Sample Preparation : **Supplied by customer**
 Sample Type : **13mm width x 127mm length x 4.25 mm**

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

This material meets the CC1 classification of the 2003 International Building and Construction (IBC) Standard

The behavior of specimens shall be classified 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 test method should be used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard for fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

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Material : **LTC2R45 LTD2R45 LTT2R45 LTR2R45 VT24510**
 Test Direction : **Cross Machine Direction**
 Thickness : **4.5 mm**
 Sample Conditioning : **48+ hours At 23°C ± 2°C / 50% ± 5% RH**
 Sample Preparation : **Supplied by customer**
 Sample Type : **13mm width x 127mm length x 4.25 mm**

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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Material : LTC2R6 LTD2R6 LTT2R6 LTC2G6 LTM2R6 LTT2M6 LTR2R6 VC20613
Material : VD20613 VCG0613 VTG0613 VCM0613 VTM0613 VT20613 VTR0613
Test Direction : Machine Direction
Thickness : 6.0 mm
Sample Conditioning : 48+ hours At 23°C ± 2°C / 50% ± 5% RH
Sample Preparation : Supplied by customer
Sample Type : 13mm width x 127mm length x 4.25 mm

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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Material : LTC2R6 LTD2R6 LTT2R6 LTC2G6 LTM2R6 LTT2M6 LTR2R6 VC20613
 Material : VD20613 VCG0613 VTG0613 VCM0613 VTM0613 VT20613 VTR0613
 Test Direction : Cross Machine Direction
 Thickness : 6.0 mm
 Sample Conditioning : 48+ hours At 23°C ± 2°C / 50% ± 5% RH
 Sample Preparation : Supplied by customer
 Sample Type : 13mm width x 127mm length x 4.25 mm

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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Material : **LTC2R8 LTD2R8 LTT2R8 LTR2R8 VC20817 VD20817 VCG0817 VTG0817 VCM0817 VTM0817 VT20817 VTR0817**
 Test Direction : **Machine Direction**
 Thickness : **8.0 mm**
 Sample Conditioning : **48+ hours At 23°C ± 2°C / 50% ± 5% RH**
 Sample Preparation : **Supplied by customer**
 Sample Type : **13mm width x 127mm length x 4.25 mm**

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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Material : LTC2R8 LTD2R8 LTT2R8 LTR2R8 VC20817 VD20817 VCG0817 VTG0817 VCM0817 VTM0817 VT20817 VTR0817
 Test Direction : Cross Machine Direction
 Thickness : 8.0 mm
 Sample Conditioning : 48+ hours At 23°C ± 2°C / 50% ± 5% RH
 Sample Preparation : Supplied by customer
 Sample Type : 13mm width x 127mm length x 4.25 mm

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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Material : **LTC2R10 LTD2R10 LTT2R10 LTR2R10**
 Test Direction : **Machine Direction**
 Thickness : **10.0 mm**
 Sample Conditioning : **48+ hours At 23°C ± 2°C / 50% ± 5% RH**
 Sample Preparation : **Supplied by customer**
 Sample Type : **13mm width x 127mm length x 4.25 mm**

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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Material : **LTC2R10 LTD2R10 LTT2R10 LTR2R10**
 Test Direction : **Cross Machine Direction**
 Thickness : **10.0 mm**
 Sample Conditioning : **48+ hours At 23°C ± 2°C / 50% ± 5% RH**
 Sample Preparation : **Supplied by customer**
 Sample Type : **13mm width x 127mm length x 4.25 mm**

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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Material : **LTC3T16 LTD3T16 LTT3T16 LTR3T16**
 Test Direction : **Machine Direction**
 Thickness : **16.0 mm**
 Sample Conditioning : 48+ hours At 23°C ± 2°C / 50% ± 5% RH
 Sample Preparation : Supplied by customer
 Sample Type : 13mm width x 127mm length x 4.25 mm

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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The behavior of specimens shall be classified HB (HB = horizontal burning) if,

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Material : LTC3T16 LTD3T16 LTT3T16 LTR3T16
Test Direction : Cross Machine Direction
Thickness : 16.0 mm
Sample Conditioning : 48+ hours At 23°C ± 2°C / 50% ± 5% RH
Sample Preparation : Supplied by customer
Sample Type : 13mm width x 127mm length x 4.25 mm

Test Number	Elapsed Time (Seconds)	Disposition Of Sample	Burned Length (mm)	Linear Burning Rate (mm/min)
1	0	Self Extinguished	0	0.0
2	0	Self Extinguished	0	0.0
3	0	Self Extinguished	0	0.0
4	0	Self Extinguished	0	0.0
5	0	Self Extinguished	0	0.0
6	0	Self Extinguished	0	0.0
7	0	Self Extinguished	0	0.0
8	0	Self Extinguished	0	0.0
9	0	Self Extinguished	0	0.0
10	0	Self Extinguished	0	0.0
Average	0		0	0.0
Std. Dev.	0		0	0.0

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- 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 test method should be used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard for fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

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