

CLIENT: BAYER – MATERIAL SCIENCE
119 Salisbury Road
Sheffield, MA 01257

Test Report No: TJ2554-3

Date: December 24, 2014

SAMPLE ID: The Client submitted and identified the following test material as “**Makrolon SK 0.177” Clear**”.

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI facilities on November 20, 2014

TESTING PERIOD: December 22, 2014

AUTHORIZATION: Proposal FB-2014-092601 approved on September 26, 2014

TEST PROCEDURE: 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 635-10.

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

CLASSIFICATION: The sample received a **CC-1** classification in accordance with The International Building Code – 2006.

NOTE: *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.*

Prepared By

**Signed for and on behalf of
QAI Laboratories, Inc.**



David Bauchmoyer
Fire Test Technician



J. Brian McDonald
Operations Manager

SAMPLE: Makrolon SK 0.177” Clear

TEST DATE: 12/22/14

Equipment Number: 061-10

Conditioning Treatment: 70 °F

Temperature and Humidity at time of Testing: 70.0°F

Relative Humidity: 50 ± 5% for 48 hours

Relative Humidity: 50%

Data:

<u>Specimen Number</u>	<u>Dimensions (mm)</u>	<u>Burning Time (sec)</u>	<u>Burned Length (in)</u>	<u>Burn Rate (in/min)</u>
1	125 x 13 x 4.5	0	0*	0
2	125 x 13 x 4.5	0	0*	0
3	125 x 13 x 4.5	0	0*	0
4	125 x 13 x 4.5	0	0*0	0
5	125 x 13 x 4.5	0	0*	0
6	125 x 13 x 4.5	0	0*	0
7	125 x 13 x 4.5	0	0*	0
8	125 x 13 x 4.5	0	0*	0
9	125 x 13 x 4.5	0	0*	0
10	125 x 13 x 4.5	0	0*0	0
AVERAGE	125 x 13 x 4.5	0	0*	0

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

** - Specimen ceased to burn before reaching the 100mm gauge mark

Observations: Charring and glowing of the sample, light smoke

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 per minute (1.06 mm/sec) 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

THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFERENCED. THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED.