Govmark

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Farmingdale, New York 11735-5626 USA
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Received:03/10/2016	Completed:03/29/2016	Letter: C	XC	P.O.#: 4500023005	Test Report #: 3-12192-0-
Client's Identification	Lot No.: 2055-10141. Date of Mfg.: October 2014. Style: Phoenix PH 50 Slate Blue (6489-54). Product End Use: Upholstery. [Slate Blue side exposed to test heat source].				

Tested For: Ted Torres
Uniroyal Global Engineered Products Inc.
1800 2nd Street, Suite 970
Sarasota, FL 34236

Key Test: SMP 800C 1850

Tel: 1-(941)-906-8580 **Ext:**
Fax: 1-( )- -

Test Category: Toxic Gases Specifier: Bombardier PC:24H+ME DL/jd
LE: Rev. 6 2009-08-31 NTR 12/15

APPROXIMATE THICKNESS OF SPECIMEN (as measured by Govmark): 0.054"

TEST PERFORMED: Bombardier Specification SMP 800C Toxic Gas Generation

SUMMARY OF TEST: See page 3

RESULTS:

	Toxic Gas Generation		Specified
	Flaming Mode	Non Flaming Mode	Maximum
Carbon Monoxide (CO ppm) --			
At 1.5 minutes:	425	Less than 1	-
At 4.0 minutes:	667	11	-
At maximum:	917	100	3,500
Carbon Dioxide (CO2 ppm) --			
At 1.5 minutes:	1419	78	-
At 4.0 minutes:	3294	162	-
At maximum:	11429	422	90,000
Nitrogen Oxides (as NO2 ppm):	1	1	100
Sulfur Dioxide (SO2 ppm):	Less than 1	10	100
Hydrogen Chloride (HCl ppm):	61	115	500
Hydrogen Fluoride (HF ppm):	Less than 2	Less than 2	100
Hydrogen Bromide (HBr ppm):	Less than 1	Less than 1	100
Hydrogen Cyanide (HCN ppm):	1	Less than 1	100
Original Weight* (g):	4.93	5.00	-
Final Weight* (g):	1.23	2.14	-
Weight* Loss (g):	3.70	2.86	-
Weight* Loss (%):	75.05	57.20	-
Time to Ignition (s):	4	DNI	-
Burning Duration (s):	60	DNI	-

* Weight includes any substrate or backing supplied by Govmark (when appropriate) to support the material being tested.

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ABBREVIATIONS WHICH MAY BE USED: (M) = Minimum detectable concentration
DNI = Did not ignite
SB = Still burning at test end

CONCLUSION: The above Results: [x] Do not exceed the Critical Concentration Values
[ ] Exceed the Critical Concentration Values

REMARKS: None.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by SMP 800C.

AUTHORIZED SIGNATURE
GOVMARK
EXCN / ec /sb

MAR 3 0 2016

Robert I. Brown

Govmark

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SUMMARY OF TEST:

Toxic Gas Generation:
Gases produced for analysis are generated in a specified, calibrated smoke chamber during standard rate of smoke generation testing (typically ASTM E 662), in both flaming combustion and non-flaming pyrolytic decomposition test modes.

Carbon Monoxide (CO) and Carbon Dioxide (CO2):
CO and CO2 are monitored continuously during the 20 minute test using a non-dispersive infrared (NDIR) analyzer. Data are reported in ppm by volume at 1.5 and 4.0 minutes and at maximum concentration.

Acid Gas Sampling:
HCN, HF, HCl, NBr, NOx and SO2 are sampled by drawing 6 liters of the chamber atmosphere through two midget impingers, each containing 10 ml of 0.25N NaOH, at a rate of 375 ml per minute. The 16 minute sampling period is commenced at the 4 minute mark. All determinations are performed in both the flaming and non-flaming modes and all data are reported in parts per million (ppm) by volume in air.

Analysis of Impingers for Hydrogen Cyanide (HCN):
Cyanide in the NaOH impinger, as NaCN, is converted to CNCl by reaction with chloramine-T at pH greater than 8 without hydrolyzing to CNO -. After the reaction is complete, CNCl forms a red-blue colour on addition of a pyridine-barbituric acid reagent. Cyanide is quantified by spectrometric measurement of the increase in colour 578 nm.

Analysis of Impingers for Hydrogen Fluoride (HF):
Fluoride, as NaF, in the NaOH impinger, is determined using SPADNS colorimetry.

Analysis of Impingers for Hydrogen Chloride (HCl) and Hydrogen Bromide (HBr):
Alkali halides (chloride and bromide) formed in the NaOH solution are measured using ion chromatography with conductivity detection.

Analysis of Impingers for Nitrogen Oxides (NOX):
Nitrite and nitrate formed in the alkaline solution are determined using ion chromatography with conductivity detection. The nitrite and nitrate results are combined and the total expressed as nitrogen dioxide (NO2).

Analysis of Impingers for Sulfur Dioxide (SO2):
SO2 is trapped in the NaOH impinger as sulfite and sulfate (SO_3^{-2} and SO_4^{-2}). Hydrogen peroxide is added to convert SO_3^{-2} to SO_4^{-2}. Resulting sulfate is determined using ion chromatography with conductivity detection.