

mga research corporation

VOXX ELECTRONICS CORP FLAMMABILITY FMVSS 302 FLAMMABILITY TEST SERIES (PO# 1505474)

TEST REPORT

MGA REPORT NO.:	C25A9-024.1
TEST(S) PERFORMED ON:	February 5 – 7, 2025
TEST REFERENCE NUMBER(S):	M250143
PROCEDURE NUMBER:	MGATP_MT_BURN.4 Date of last revision: 11/11/2022
REGULATION TESTED:	49 CFR 571.302 www.ecfr.com
TEST LABORATORY:	MGA Research Corporation 820 Suburban Park Drive Greer, South Carolina 29651
SUBMITTED TO:	Joe Caltabiano VOXX Electronics Corporation 2351 J. Lawson Blvd Carey, OH 43316
REPORT DATE:	February 11, 2025
MGA PERSONNEL:	Liz Wallace

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- The results presented in this report relate only to the specified test items as received (no sampling performed).
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<u>Equipment</u>

The following instrumentation was used to perform this test. All equipment is calibrated by a source traceable to the National Institute of Standards and Technology (NIST). Calibration certificates can be furnished upon request.

Sensor ID Number	Data Type	Calibration Date	Calibration Due Date
Ruler	RULER-6	03/13/24	03/13/2025
Calipers	SC00282	03/13/2024	03/13/2025
Flame Chamber	SC00177	03/21/2024	03/21/2025
Timer	Flame Timer 1	03/21/2024	03/21/2025

Test Procedure/Preparation

The samples were conditioned and tested in a temperature and humidity-controlled room per the requirements of FMVSS 302. A 38mm line was drawn on one end of each specimen, another line was drawn the maximum possible distance from the first line (or a 250mm line if available parts can be cut to 356 x 102mm). Each sample was then placed in the flammability chamber and the flame was applied for 15 seconds to the end with the 38mm line. Once the flame reached the 38 mm line the stopwatch was started and then stopped when the flame reached the second line. If samples burn time reaches five (5) minutes, the sample is extinguished to prevent excessive heat inside the chamber and possible glass breakage. The burn rate was calculated and recorded.

Test Results

Photographs as well as all data processing and graphs can be found in Appendix A. All data is traceable to the National Institute of Standards and Technology (NIST).

MGA Test Number	Sample Description	Wires Used?	Length (mm)	Width (mm)	Thickness (mm)	Burn Distance (mm)	Burn Time (seconds)	Burn Rate (mm/minute) [Req't: ≤ 102 mm/minute*)
M250143-1	Twilight Vinyl	Yes	355	102	1.03	0	50	SE/0
M250143-2	Pitch Black Vinyl	Yes	355	102	1.03	0	0	DNI
M250143-3	Twilight Leather	Yes	355	102	1.6	0	0	DNI
M250143-4	Cream Vinyl	Yes	355	102	1.06	0	36	SE/0

DNI = Did Not Ignite

Additional test	documentation can	be found in	the following appendix.
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Appendix A Test Photographs



Pre-Test Photograph M250143 (1-4)



Post-Test Photograph M250143 (1-4)