



mga research corporation

**PECCA LEATHER
2009 TOYOTA COROLLA DRIVER SEAT
SIDE IMPACT (PASSENGER SEAT)
AMBIENT AIRBAG DEPLOYMENT TEST
(PO # 408)**

446 executive drive • troy, mi 48083
248 / 577-5001 • fax 248 / 577-5025
www.mgaresearch.com





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TEST REPORT

MGA REPORT NO.: C10I7-067.2

TEST(S) PERFORMED ON: August 2, 2010

TEST DESCRIPTION: Side Impact (Passenger) Airbag Deployment

ITEM DESCRIPTION: 2009 Toyota Corolla Front Seat Airbag Module
(PO #408)

PROCEDURE NUMBER: MGATP_SAD
03/01/2008

TEST REFERENCE NUMBER(S): P10384

TEST LABORATORY: MGA Research Corporation
446 Executive Drive
Troy, Michigan 48083

SUBMITTED TO: Zac Lee
Pecca Leather
13426 Rosecrans Avenue
Unit D
Norwalk, California 90650

REPORT DATE: August 5, 2010

MGA PERSONNEL:

Andrew Gould
Project Leader

Test Personnel:
Justin Lewis
Daniel Vojnovski

- * The results presented in this report relate only to the specified test items.
- ** This report shall not be reproduced except in full, without the written approval of the laboratory.

Objective

The purpose of this report is to document the results of a Static Side Impact Airbag Deployment test performed by MGA Research Corporation (MGA) for Pecca Leather (Pecca). The item tested was a 2009 Toyota Corolla seat airbag module. The test was conducted on August 2, 2010 at MGA in Troy, Michigan.

Customer-Specified Requirements

One (1) airbag was tested at ambient (+23°C) according to the instructions provided by the customer. The airbag was deployed at T=10 msec.

Test Procedure

- The seat was adjusted to vehicle design position, and secured to a work surface.
- MGA’s high-speed video cameras were used to capture the airbag deployment event at 2,000 fps.
- The airbag was deployed at time zero t (0) =10 msec.
- Pre and post-test photographs were taken and all fragmentation was collected and weighed.

Equipment

MGA’s Kayser Threde airbag deployment system was used for this test. The airbag deployment was captured using two high-speed video cameras at a rate of 2,000 frames-per-second (fps).

Equipment	Manufacture	Calibration Date	Calibration Due Date
Chamber 11	Russells	06/10/2010	06/10/2011
High-Speed Video Cameras	Phantom	No calibration required	N/A

Test Results

Pre and post-test photographs for this test can be found in Appendix A. All data is traceable to the National Institute of Standards and Technology (NIST).

Date	MGA Test Ref. #	Sample Description	Temp. (°C)	Fragmentation Element Mass (g)	Post-Test Comments
8/2/10	P10384	2009 Toyota Corolla Passenger Seat Airbag Module	Ambient	--	<ul style="list-style-type: none">• The airbag deployed successfully.• Airbag Breakout Time = 5.5 msec

Additional test documentation can be found in the following appendices.

Appendix A Test Photographs..... Page 3

Appendix A
Test Photographs

MGA Test #: P10384

Test Date: 8/2/2010



Pre-Test Photo #1 of Test #P10384



Pre-Test Photo #2 of Test #P10384



Post-Test Photo #1 of Test #P10384



Post-Test Photo #2 of Test #P10384



Post-Test Photo #3 of Test #P10384



Post-Test Photo #4 of Test #P10384



Post-Test Photo #5 of Test #P10384



Post-Test Photo #6 of Test #P10384



Post-Test Photo #7 of Test #P10384



Post-Test Photo #8 of Test #P10384



Post-Test Photo #9 of Test #P10384



Post-Test Photo #10 of Test #P10384



Post-Test Photo #11 of Test #P10384



Post-Test Photo #12 of Test #P10384



Post-Test Photo #13 of Test #P10384