



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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MECHANICAL

Valid To: December 31, 2017

Certificate Number: 0079.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following automotive tests on Plastics, Rubber, Foams, Paper/Paperboard, Composites, Textiles, Leather, Adhesives, Paints, and related materials:

<u>Test:</u>	<u>Test Method:</u>
ABRASION	
<u>Falling Sand</u>	
ASTM	D968
FTMS	141a-6191
GM	9542P (8/89) ²
<u>Martindale</u>	
ASTM	D4966
Ford	FLTM BN 158-01
GMW	15651
VDA	230-210
<u>RCA</u>	
ASTM	F2357
GM	9304P
GMW	3431 (Paragraph 4.3.14.1)
Nissan	NES M0136
<u>Scrape</u>	
ISO	6722-1
<u>Seatbelt</u>	
FMVSS	209 S5.1 (d)

Test:**Test Method:****ABRASION (cont'd)**Stolle

ASTM	D3886
Ford	FLTM BN 108-01, BN 112-01 (9/90) ²

Taber

ASTM	D1044, D3884, D4060
Chrysler	LP463-KB-21-01
Ford	FLTM BN 108-02
GM	9337P, 9515P (9/88) ²
GMW	3208
Honda	HES D6506, D6507
SAE	J948, J1530, J1847

Wyzenbeek

ASTM	D4157
Chrysler	LP463-KB-6-01
GM	9082P (11/88) ² , 9222P, 9516P (9/88) ²
SAE	J948, J1530

CHEMICAL STRESS RESISTANCE

ASTM	D896, D1693
Ford	FLTM BO 101-05, BO 127-03, BO 130-01, BO 158-03, BP 008-05
GM	9308P (7/95) ²
GMW	14334, 14445
ISO	4599, 22088-3
SAE	J2016 (11/99) ²
Tesla	TP-0000703

CHIP RESISTANCE / GRAVELOMETER

ASTM	D3170
Chrysler	LP463-PB-52-01
GM	9508P (6/02) ²
GMW	14700
SAE	J400

Test:**Test Method:****CLEANABILITY**

Chrysler	LP463-KC-04-01, KC-04-02, KC-04-03
Ford	FLTM BN 112-03, BN 112-08
GM	9126P (12/02) ² , 9156P, 9900P (8/02) ²
GMN	10059 (4/13) ²
GMW	3402, 14334, 15377
Hyundai/Kia	MS-210-05 ¹
ISO	26082-1
Nissan	NES M0133

COLOR EVALUATION

AATCC	TM 173 (Evaluation Procedures 1, 2, and 8)
ASTM	D1003, D2244, E313
DIN	54001
Ford	FLTM BN 107-02
GM	9101P (1/13) ²
ISO	105-A02, 105-A03
SAE	J1545, J1767

COMPRESSION

ASTM	D395, D695, D1056, D1621, D1667, D3574, D3575
DIN	53457, 53517, 53577
Ford	FLTM BN 015-06, BN 115-07, BO 013-02, BO 111-01, BO 111-02, BO 113-03, BO 113-04
Honda	HES D6002
ISO	604, 815, 844, 1856, 3386
Nissan	NES M0142
SAE	J1352

CONDITIONING

ASTM	D618
GMW	3221
ISO	291
JIS	Z8703

Test:**Test Method:****CROCKING**

AATCC	TM 8
Chrysler	LP463-PB-54-01
Ford	FLTM BN 107-01
GM	9033P (7/13) ²
GMW	3274
ISO	105-X12, 20433
SAE	J861

DENSITY / WEIGHT

ASTM	D297 (Hydrostatic Method s. 16.3), D792, D1056, D1475, D3574, D3575, D3776
Chrysler	LP463-NB-15-01
DIN	53420, 53479 (Method A)
Honda	HES D6002
ISO	171, 845, 1183-1 (Method A)
SAE	J315, J860

FILLER

ASTM	D586, D1278, D1506, D1603, D2584, D4218, D5630 (Method B)
DIN	EN 60
Ford	FLTM BO 006-01, BO 006-02, BV 150-10, BV 150-12
GM	9010P (3/11) ² , 9077P (9/88) ² , 9194P (7/88) ²
ISO	1172, 3451, 6964

FILM THICKNESS

ASTM	D4129 (Procedure A)
Ford	FLTM BI 117-01
GM	9518P (7/88) ²
ISO	2808 (Methods 6A-1, 6B)

FLAMMABILITY

ASTM	D635, D3801, D5132, D6413
BMW	GS97038
California Technical Bulletin	117 (Section A, Part III)
Chrysler	MS-JP9-4
DIN	75200

Test:**Test Method:****FLAMMABILITY (cont'd)**

Fiat	7-G2000
FMVSS	302
Ford	FLTM BN 024-02; ES-E97B-1011014-AA
GM	6090M (4/89) ² , 9070P (9/11) ²
GMW	3232
Honda	HES D6003
Hyundai/Kia	MS-300-08
ISO	1326, 3795
Mazda	MES CF050C
Mercedes	DBL5307.10
Mitsubishi	ES-X60410
Nissan	NES M0094, M0142
SAE	J369
Toyota	TSM 0500G
Volkswagen	TL1010

FLEX

ASTM	D790, D2097, D4475, D4476, D6182
DIN	53452, 53457
Ford	FLTM BN 002-03, BN 102-02, BN 102-04, BN 162-01
GM	9143P (6/15) ² , 9216P
GMW	3390
Honda	HES D6501
ISO	178, 5402, 14125
Jaguar Land Rover	TPJLR.52.413
SAE	J949
Toyota	TSM 0501G

FLEX FOLD

Chrysler	LP463-KB-28-01-A, KB-28-01-C, LB-9-01
Ford	FLTM BN 102-04, BO 113-04

Test:**Test Method:****FLUID IMMERSION / EXTRACTION**

ASTM	D471, D570, D629, D870, D1667, D1815, D2842
Chrysler	LP463-PB-31-01, TB-1-01, TB-13-01
Coast Guard	CGD 77-145
Ford	FLTM BI 104-01, BO 029-03, BO 129-02, BO 157-01, BP 010-01, BP 117-01, BS 004-02, BS 104-01
GM	9454P (7/10) ² , 9514P (2/03) ²
Honda	HES D2008 ¹ , D6501
ISO	62, 175, 1817, 6427, 6916-1 (Annex E)
SAE	J913

FOGGING

ASTM	D1003, D5393-93
Chrysler	LP463-DB-12-01
DIN	75201
Ford	FLTM BO 116-03 (7/90) ²
GM	9305P (1/92) ²
GMW	3235
Honda	HES D6508
Hyundai/Kia	MS-300-54
ISO	6452
Mazda	MES MN401
Mitsubishi	ES-X83217, ES-X83231
Nissan	NES M0161, M7081
SAE	J1756
Toyota	TSM 0503G
Volkswagen	PV 3015
Volvo	1027, 2711

FRICITION

ASTM	D1894
Chrysler	LP463-KB-29-01
Ford	FLTM BN 014-03, BP 003-02
ISO	8295

Test:**Test Method:****FUNGUS / MILDEW**

AATCC	TM 30 (Parts II, III)
ASTM	D5590, G21
Chrysler	LP463KB-34-01
Ford	FLTM BN 012-03
GM	9128P (9/88) ² , 9215P, 9303P (9/88) ² , 9328P (11/89) ²
GMW	3259, 16124, 16128
ISO	846
MIL STD	810C
Nissan	NES M0076

GLOSS

ASTM	C584, D523, D1455
Chrysler	LP463-PB-11-01
Ford	FLTM BI 110-01, BI 010-02
Honda	HES D6501

HARDNESS

ASTM	D785 (Scales R, M), D2134, D2240 (Shore A, D), D3363
DIN	53505
Ford	FLTM BI 112-01, BI 151-01
GM	9053P (4/89) ²
Honda	HES D6501
ISO	868, 2039-2
Nissan	NES M0142

HDT (Heat Deflection Temperature) / VICAT / SOFT POINT

ASTM	D648 (Method B), D1525
Chrysler	LP463-TB-14-01
ISO	75, 306
Toyota	TSM 0501G

HUMIDITY

ASTM	D1735, D2247, D4585
Ford	FLTM BQ 104-02

Test:**Test Method:****HUMIDITY (cont'd)**

GM	4465P (7/95) ² , 9329P (2/03) ² , 9528P (7/94) ²
GMW	14729
Honda	HES D2008 ¹ , D6501

IMPACT

ASTM	D256, D1709, D1822, D3763, D4812, D5420, D5628, D6110
Chrysler	LP463-KB-28-01-B, NB-13-01, TB-9-01
DIN	53453
Ford	FLTM BI 108-01, BO 117-02, BO 151-01, BO 163-01, BV 101-01, BV 101-02
GM	9011P (7/14) ² , 9032P (10/88) ² , 9140P (4/04) ² , 9300P (6/01) ² , 9302P (3/14) ² , 9528P (6/11) ² , 9904P (1/11) ²
GMW	14093
Honda	HES D2500, D6501
ISO	179, 180, 6603-1, 6603-2, 7765
Nissan	NES M0134
Toyota	TSM 0501G (Section 8.4)
Volkswagen	PV3905

INFRARED SCAN

ASTM	D2124, E168, E1252 (Section 9.0)
GM	9740P (9/88) ²

LOW TEMPERATURE BRITTLENESS

ASTM	D746, D751 (Section 60), D1329, D1790, D1912, D2137
Chrysler	LP463-DD-7-01, LB-11-01
Ford	FLTM BI 107-02, BN 102-01 (Method A), BN 128-01, BU 152-04
GMW	14126, 14127
ISO	812, 974
SAE	J323 (Method A)

MELT FLOW

ASTM	D1238, D3364
Ford	FLTM BO 021-01
ISO	1133, 4440

Test:**Test Method:****MELT POINT**

ASTM	D3418
Ford	FLTM BO 021-02
GM	9094P (11/88) ²
ISO	1218 (Method B)

MINKING / PILLING

Chrysler	LP463-KB-37-01
Ford	FLTM BN 108-03, BN 108-14

MOISTURE CONTENT

ASTM	D6869
Ford	FLTM BI 102-01, BI 120-08, BO 024-02
ISO	960 (Method A), 15512 (Methods A and B)
SAE	J315

MOISTURE VAPOR TRANSMISSION

ASTM	E96
Ford	FLTM BU 001-01, BU 001-02
GM	9450P

ODOR

ASTM	D4339
Chrysler	LP463-KC-9-01
Ford	FLTM BO 131-01, BO 131-03
GM	9130P (6/15) ²
GME	60276
GMW	3205
Honda	HES D6507
Hyundai/Kia	MS-300-34
SAE	J1351
Toyota	TSM 0505G (excluding water extraction)
VDA	270
Volvo	429-0001

Test:**Test Method:****OVEN / EXPOSURE CYCLE**

ASTM	D573, D751, D1056, D1509, D3012, D3045, D3574, D3575
Chrysler	LP463-CB-10-01, DD-8-02, KC-15-01, LB-12-01, LB-13-01, PB-22-01, PB-36-01
Ford	FLTM BN 113-02, BN 113-03, BO 012-01, BQ 104-07
GM	9059P (10/88) ² , 9131P, 9142P (6/15) ² , 9200P, 9231P, 9310P (9/88) ² , 9504P (2/03) ² , 9505P (10/05 except cycle J) ² , 9758P (3/98) ²
GMW	3221, 14124
Hyundai/Kia	MS-210-05 ¹
ISO	183, 188, 2578, 2796, 4577
Nissan	NES M0131, M0132, M0142

OZONE

ASTM	D1149, D1171
Fiat	50417
Ford	FLTM BP 101-01
GM	2724M (Paragraph 3.14) (6/12) ² , 4486P (7/95) ²
ISO	1431-1, 7326

PAINT ADHESION

ASTM	D3359, D5402
Chrysler	LP463-LB-19-01
Ford	FLTM BI 104-04, BI 106-01
GM	4489P (6/97) ² , 9071P (8/02) ² , 9160P (6/15) ² , 9500P (11/88) ² , 9501P (3/97) ² , 9502P (11/88) ² , 9503P (6/12) ² , 9506P (11/88) ² , 9507P (9/88) ² , 9509P (10/12) ² , 9531P (6/12) ²
GMW	14333, 14829, 15891, 16745, 16746
Honda	HES D6501
ISO	2409

PEEL TEST

ASTM	D413, D751, D903, D1000, D3330
Chrysler	LP463-AB-37-01, LB-10-01, TB-3-01, TB-11-01
Ford	FLTM BN 113-01, BN 151-05, BO 101-06, BP 008-03
GM	9207P (9/88) ² , 9210P, 9758P (6/11) ² , 9795P (3/90) ² , 9797P (3/11) ²
GMW	3220, 14132



Test:**Test Method:****PEEL TEST (cont'd)**

Honda	HES D6511
ISO	6133, 8033, 8510-2
Magna	WI-7145
SAE	J912, J1553, J1600 (4/87) ² , J1907

PLASTIC (GENERAL)

GM	7400M ¹ , 7451M ¹ , 7452M ¹
Honda	HES D2500, D2501, D2502
ISO	1923, 4591
Toyota	TSM 0501G

SALT SPRAY / CORROSION

ASTM	B117, B368, D1654, D2059
Fiat	50180
Ford	FLTM BI 004-03, BI 103-01, BQ 007-02, BQ 105-01, BU 106-01
GM	4298P (12/10) ² , 4476P (6/97) ² , 9102P (12/10) ² , 9511P (12/10) ²
GMW	3286, 14458, 15282, 16862
Honda	HES D6501
ISO	4611, 4628-1, 4628-2, 4628-3, 4628-8, 9227
Nissan	NES M0140, M4063 (Section 4.5.2)
SAE	J1389

SCUFF / MAR

Chrysler	LP463-DD-18-01, PB-54-01, PF-10938
Ford	FLTM BN 108-04, BN 108-10, BN 108-13, BO 162-01
GM	9150P (10/04) ²
GMN	3943
GMW	14130, 14698
SAE	J365
Volvo	1024, 3113

SEAM STRENGTH

ASTM	D751, D1117, D1683, D4884
Ford	FLTM BN 106-02, BN 119-01
GM	9129P (7/15) ²

Test:**Test Method:****SEAM STRENGTH (cont'd)**

GMW	3405
Honda	HES D6506, D6511

SHEAR STRENGTH

ASTM	D732, D2344, D3163, D3164, D3846
Chrysler	LP463-CB-1-02, CB-8-01
Ford	FLTM BV 101-06
ISO	4585, 4587, 6237, 6238
SAE	J1523, J1525

SHRINKAGE / DIMENSIONAL STABILITY

ASTM	D955, D1204
Chrysler	LP463-TB-10-01, TB-12-01
Ford	FLTM BN 005-02, BN 105-01, BN 105-03, BO 129-01
GM	9452P (12/10) ²
GMW	4217
ISO	294-4
SAE	J315, J883, J1717

SO₂ (KESTERNICH)

ASTM	G87
DIN	50018
ISO	6988

STAIN

AATCC	TM 15, TM 23, TM 107, TM 118
ASTM	D925 (Methods A and B), D1712, D1913
Chrysler	LP463-DD-6-01, KC-1-01, KC-3-01, NB-14-01, PB-57-02
Ford	FLTM AN 101-01, AN 102-01, BI 113-01, BI 113-02, BI 113-03 (3/01), BI 113-05, BI 113-07, BN 103-01, BO 112-06, BP 115-01, BP 153-01, BU 105-01, BV 107-01
GM	4357P, 9027P (9/88) ² , 9069P (9/88) ² , 9133P, 9141P, 9198P, 9214P (9/88) ² , 9240P (9/88) ² , 9317P, 9517P (11/88) ² , 9689P (6/14) ² , 9736P (7/88) ² , 9902P
GMN	8170, 10033
GMW	14069 (8/05) ² , 14102, 14131, 14141, 14296, 14445, 14864

Test:**Test Method:****STAIN (cont'd)**

ISO	105-G02, 15701
Nissan	NES M0142
SAE	J322, J1326

STIFFNESS

ASTM	D747, D1053
Chrysler	LP463-KB-25-01
Ford	FLTM BN 120-01, BN 157-01
GM	9151P (6/15) ²
GMW	16190
ISO	17235

TEAR STRENGTH**Die "C"**

ASTM	D624, D1004
ISO	34

Elmendorf

ASTM	D751, D1117, D1424, D1922, D5734 (2008) ²
ISO	6383

Stitch

ASTM	D4705
GM	9149P (6/15) ²

Tongue

ASTM	D751, D1117, D1938, D2261
Chrysler	LP463-KB-3-01
DIN	53507
Honda	HES D6511
ISO	4674-1 (Method B), 6383, 8067, 13937-2

Trapezoid

ASTM	D1117, D4533, D5587, D5733-99
Chrysler	LP463-KB-3-01
GMW	3326
Honda	HES D6506

Test:**Test Method:****TENSILE**

ASTM	D412, D461, D638, D751, D882, D1056, D1117, D2208, D2209, D2211, D2256, D3574, D3575, D3826, D4632, D5034, D5035
Chrysler	LP463-KB-2-01, KB-22-01
DIN	53455, 53457, 53504, 53571, 53857
Ford	FLTM BN 013-07, BN 121-01, BN 150-04, BP 116-01
GM	9127P (9/88) ² , 9774P (8/13) ²
GMN	6753
GMW	3010, 3211, 14148, 14695
Honda	HES D6506, D6507, D6511
ISO	37, 527, 1184, 1421, 1798, 1926, 2062, 3268, 6239, 13934
Nissan	NES M0142
SAE	J855
Toyota	TSM 0501G

TEXTILE CONSTRUCTION

ASTM	D737, D1777, D1813, D2061, D3774, D3775, D3776, D3882, F778
Chrysler	LP463-KB-14-01, LB-7-01
DIN	53584, 53855
Ford	FLTM BN 106-01, BN 108-08
GM	9132P, 9146P
GMW	3182, 3387, 4089, 4090, 4141, 4726, 14777
Honda	HES D6506
ISO	2286-2, 2286-3, 2589, 5084, 9073-2 (Method A)
SAE	J882

THERMAL ANALYSIS

ASTM	D3418, D3795, D3850, D3895, D4065, D4440, D4473, D5028, D5279, E793, E794, E1131, E1269, E1356, E1640
GM	9094P (11/88) ²
ISO	3146:1985 (Method C), 11357, 11358, 11359

THERMAL EXPANSION

ASTM	D696, E831, E1545
Fiat	50560

Test:**Test Method:****THERMAL SHOCK**

Chrysler	LP463-PB-64-01
Ford	FLTM BI 107-05
GM	9525P (9/88) ²
GMW	15919
Hyundai/Kia	MS-210-05 ¹

VISCOSITY

ASTM	D789 (Section 9.3), D1200, D2196
Ford	FLTM BI 102-03, BI 111-01
ISO	307, 1628

VOLATILE LOSS

ASTM	D1203
Chrysler	LP463-DD-4-01, NA-1-01
Honda	HES D6511
ISO	176

WARPAGE

Ford	FLTM BS 002-01
SAE	J315

WOM / FADE / UV

AATCC	TM 16 (Options 1 and 2), TM 111A
ASTM	D822, D1499, D2565, D4355, D4459, D5031, D5071, D5208, D7869, G23 (1996) ² , G26 (1996) ² , G53 (1996) ² , G152, G153, G154, G155
Chrysler	LP463 KB-12-01
Fiat	50451/01 (Method A), 50471/01
Ford	FLTM BN 017-02, BN 117-01, BN 117-03, BO 015-03, BO 101-01, BO 115-01, BO 115-02, BO 116-01; DVM-0067-MA
GM	9125P (7/91) ² , 9327P (1/11) ²
GMW	14162 (Method D)
Honda	HES D6501, D6511
ISO	105-B06 (Procedure 5), 4892
JIS	D0205
Nissan	NES M0135, M0142



Test:**Test Method:****WOM / FADE / UV (cont'd)**

SAE

J1885 (3/05), J1960 (10/04), J2020, J2412, J2527

Toyota

TSL 0601G (Methods A and E)

WRINKLING

Chrysler

LP463-KB-24-01

¹The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with any material specifications included on this Scope; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.

²This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

GHESQUIERE PLASTIC TESTING, INC.

Harper Woods, MI

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 30th day of November 2015.

A handwritten signature in black ink, reading "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 0079.01
Valid to December 31, 2017

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.