SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

LABORATORIO CENTRAL DE BADER DE MEXICO[1]
Bader de Mexico
Sigma 209, Parque Industrial Delta
Leon, Guanajuato C.P. 37545 MEXICO
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MECHANICAL

Valid To: December 31, 2024 Certificate Number: 1700.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, as well as the two satellite laboratories listed below to perform the following tests on automotive upholstery leather:

Test(s):	**Test Method(s):**
Fastness Tests	
Colorfastness of Leather to Light (Xenon Lamp)	DIN EN ISO 105-B06; DBL 5310 item 12, DBL 5471 item 7; MBN 55555-5 Item 5.3
Colorfastness of Leather to Artificial Light (Weather-Ometer)	GMW 14162; HES-D6601
Colorfastness of Leather to Perspiration	DIN EN ISO 105-E04; DBL 5310 item 9
Colorfastness of Leather in Respect of Staining Plasticized Polyvinyl Chloride (PVC)	ISO 15701
Colorfastness to To and Fro Rubbing	ISO 11640; DBL5310 item 10; PAPP PWT 7328
Adhesion of Finish	ISO 11644; DBL 5310 item 11; GMW 15717; 8102Z-TJB-A000 6.2.12
Resistance to Sunscreen	MBN 55555-7 Item 5.2
Colorfastness to Crocking	AATCC 8; ISO 105-X12; GMW 3402 Method A; 8102Z-TJB-A000 6.2.5

Test(s):	Test Method(s):
Fastness Tests (cont'd)	
Soiling and Cleanability	GMW 3402 Method B; AA-0419, GMW15377 & TL 9169300.6 Sections 3.1.6, 3.5.5; VDA 230-212; DBL 5310 item 14 & 22, DBL 5399 item 7.24; 8102Z-TJB-A000 6.2.16, 6.2.17; MBN 55555-3 Item 5.2
Resistance to Mildew	GMW 3259
Standard Test Method for Specular Gloss	ASTM D523
Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates	ASTM D2244; DIN EN ISO 105-A05; DBL 5310
Physical Tests	
Measurement of Thickness	DIN EN ISO 2589, DIN EN ISO 5084, DIN EN ISO 2286-3; ASTM D1813; 8102Z-TJB-A000 6.1.1
Finishing Thickness	ISO 17186
Measurement of Apparent Density (Mass / Unit Area)	DIN EN ISO 2420, DIN EN ISO 12127; ASTM D3776; GMW 3182
Measurement of Tensile Strength and Percentage Elongation	DIN EN ISO 3376, DIN EN ISO 13934-1, DIN EN ISO 527-3; GMW 3010; ASTM D5034, ASTM D2208; 8102Z-TJB-A000 Section 6.1.2
Measurement of Flexing Endurance of Light Leathers and their Surface Finishes	DIN EN ISO 5402-1
Resistance to Flex Cracking (Scott Flex Machine)	8102Z-TJB-A000 6.2.3
Measurement of Water Vapor Permeability	DIN EN ISO 14268
Apparent Bending Modulus of Plastics and Depression by Means of a Cantilever Beam	DIN 53362; GMW 3390, 14134; VDA 230-209; DIN EN ISO 17235; 8102Z-TJB-A000, 6.1.8; MBN 55555-6
Flex Testing of Finish on Upholstery Leather	ASTM D2097
Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head (Taber) Method)	ASTM D3884; ISO 17076; GMW 3208; 8102Z-TJB-A000, 6.2.6.1

Test(s):	**Test Method(s):**
Physical Tests (cont'd)	
Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder (Wyzenbeek) Method)	ASTM D4157; LP-463KB-06-01
Abrasion Resistance Gakushin Type Friction Tester	8102Z-TJB-A000 6.2.6
Determination of the Abrasion Resistance of Fabrics by the Martindale Method	DIN EN ISO 12947-1, -2; AA-0412; VDA 230-211
Measurement of Tear Strength	DIN EN ISO 3377-1; ISO 13937-2; 8102Z-TJB-A000 6.1.4
Determination of Stitch Tear Resistance	DIN EN ISO 23910; GMW 14146 (B)
Flammability of Interior Material	FMVSS 302; DIN 75200; DBL 5307 (item 6.1); BMW GS97038; GMW 3232; HES D6003; TL 1010, ISO 3795, VCS 5031,19, TSM0500G, MS-JP-9-4
Fogging Characteristics of Interior Automotive Material	SAE J1756 (Gravimetric); DIN 75201 (B); DIN EN 17071 (B); GMW 3235 (B); TSM0503G
Fogging (%-Haze) Method A	8102Z-TJB-A000 6.3.4; HES D6508
Hot Odor Test for Insulation Material	VDA 270; GMW 3205; DBL 5430 item 6.4; TSM0503G
Static Elongation (Stretch and Set)	GMW 3211; VW PV 3909; 98102Z-TJB-A000 6.1.6
Shrinkage, Dimensional Stability	TL 9 169 300.6 (AA-056, AA0568), TL52064 item 17.1 (PV 1200); DBL 5310 item 18; GMW14124; 8102Z-TJB-A000 6.1.7; MBN 55555-4 Item 5.4
Automotive Environmental Cycles	GMW 14124 Cycle M, R, S, and Q; DBL 5310 item 26; MBN 55555-4 Item 5.5 8102Z-TJB-A000 6.2.7 Moist Heat, 8102Z-TJB-A000 6.2.8 Humidity Resistance
Resistance to Cold Crack	GMW 14126, 14127; 8102Z-TJB-A000, 6.2.2; DBL 5306 Sections 7.1 and 7.2, DBL 5310 item 10
Heat Resistance Folding Exposure	DBL 5306 Section 6; MBN 55555-6 Item 5.12

Test(s):	**Test Method(s):**
Physical Tests (cont'd)	
Water Vapor Permeability	GMW 14140
Resistance to Seam Fatigue	GMW 3405
Determination of Seam Strength	8102Z-TJB-A000, 6.1.5
Blocking	GMW 14132; SAE J912; 8102Z-TJB-A000 6.2.4
Coefficient of Slide Friction	DBL 5306 Section 19.1.1 Method A; MBN 55555-6 Item 5.10
Stick Slip	VDA 230-206
Determination of Loose Grain Effect	VDA 230-205
Reflectance of Solar Radiation 980 nm	PAPP PWT 7333; DIN EN ISO 17502 B; PR 358
Separation Strength	EN ISO 2411; GMW 3220
Determination of Volatile Matter	ISO 4684; PR362 BMW
Determination of Substances (Fats and Other Solubles) Soluble in Dichloromethane	DIN EN ISO 4048
Determination of Sulfated Total Ash and Sulfated Water Insoluble Ash	EN ISO 4047
Determination of Chromic Oxide	DIN EN ISO 5398-1
Determination of pH Value and Difference Figure of an Aqueous Extract	DIN EN ISO 4045
Resistance to Water Spotting Penetration Behavior with Water and Paraffin	GMW 14102; AA0566
Oil Repellency	AATCC118; VDA 230-216
Chemical Resistance 1, 2, 3	8102Z-TJB-A000 6-2-13, 6-2-14, 6-2-15; HES D6511
Hydrogen Sulfide (H2S), Sulfur Dioxide (SO_2)	GMW14864; 8102Z-TJB-A000 6-2-10
Visual Evaluation of Color Change by Grey Scale	ISO 105-A02; JIS L0804
Visual Evaluation of Staining by Grey Scale	ISO 105-A03; JIS L0805

Test(s):	Test Method(s):
Physical Tests (cont'd)	
Formaldehyde in Leather	DIN EN ISO 17226-2; DIN 53315; VDA 275; VW PV 3925
Chromium VI determination	ISO 17075-1
Water & Wastewater Measurement	
pH measurement in natural, waste and treated wastewater	NMX-AA-008-SCFI-2016
Temperature measurement in natural, waste and treated wastewater[2]	NMX-AA-007-SCFI-2013
Determination of turbidity in natural water, wastewater and treated wastewater	NMX-AA-038-SCFI-2001
Measurement of electrical conductivity in natural, waste and treated wastewater	NMX-AA-093-SCFI-2018
Determination of methylene blue active substances (SAAM) in natural, drinking, waste and treated wastewater	NMX-AA-039-SCFI-2001
Measurement of recoverable fats, oils, and grease in natural, waste and treated wastewater	NMX-AA-005-SCFI-2013
Measurement of settleable solids in natural, wastewater and treated wastewater	NMX-AA-004-SCFI-2013
Measurement of dissolved solids and salts in natural, waste and treated	NMX-AA-034-SCFI-2015
Determination of total chlorides in natural water, wastewater, and treated wastewater-	NMX-AA-073-SCFI-2001
Determination of total hardness in natural, waste, and treated wastewater	NMX-AA-072-SCFI-2001

[1]This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratories listed below:

[2] This laboratory performs field testing activities for these tests.

LABORATORIO SECUNDARIO TABACHINES
Tabachines #201
Col. Unidad Obrera
Leon, Guanajuato C.P. 37179 MEXICO

Test(s):	**Test Method(s):**
Measurement of Thickness	DIN EN ISO 2589, DIN EN ISO 5084, DIN EN ISO 2286-3; ASTM D1813; 8102Z-TJB-A000 6-1-1
Measurement of Apparent Density (Mass / Unit Area)	DIN EN ISO 2420, DIN EN ISO 12127; ASTM D3776; GMW 3182
Measurement of Tear Strength	DIN EN ISO 3377-1; ISO 13937-2; 810Z-TJB-A000 6.1.4
Apparent Bending Modulus of Plastics and Depression by Means of a Cantilever Beam	DIN EN ISO 17235; 8102Z-TJB-A000, 6.1.8; GMW 14134 (BLC ST300), GMW 3990; DIN 53362
Determination of Volatile Matter	ISO 4684; PR362 BMW
Separation Strength	EN ISO 2411; GMW 3220
Determination of Loose Grain Effect	VDA 230-205
Permeability to Air	ISO 9237
Flammability of Interior Material	FMVSS 302; DIN 75200; DBL 5307 (item 6.1); BMW GS97038; GMW 3232; HES D6003; TL 1010, ISO 3795, VCS 5031,19, TSM0500G, MS-JP-9-4
Automotive Environmental Cycles	GMW 14124 Cycle M, R, S, and Q; DBL 5310 item 26; MBN 55555-4 Item 5.5 8102Z-TJB-A000 6.2.7 Moist Heat, 8102Z-TJB-A000 6.2.8 Humidity Resistance

LABORATORIO SECUNDARIO JALISCO
Rita Pérez de Moreno #2030
Parque Industrial Colinas de Lagos
Lagos de Moreno Jalisco C.P. 47515 MEXICO

Test(s):	**Test Method(s):**
Measurement of Thickness	DIN EN ISO 2589, DIN EN ISO 2286-3, DIN EN ISO 5084; ASTM D1813; 8102Z-TJB-A000 6.1.1
Measurement of Apparent Density (Mass / Unit Area)	DIN EN ISO 2420, DIN EN ISO 12127; ASTM D3776; GMW 3182
Apparent Bending Modulus of Plastics and Depression by Means of a Cantilever Beam	DIN EN ISO 17235; GMW 14134 (BLC ST300), GMW 3990; 8102Z-TJB-A000, 6.1.8; DIN 53362
Determination of Loose Grain Effect	VDA 230-205
Separation Strength	EN ISO 2411; GMW 3220
Measurement of Tensile Strength and Percentage Elongation	GMW 3010; ASTM D5034-06, ASTM D2208; DIN EN ISO 3376, DIN EN ISO 13934-1, DIN EN ISO 2062, DIN EN ISO 527-3

Accredited Laboratory

A2LA has accredited

LABORATORIO CENTRAL DE BADER DE MEXICO

Leon, Guanajuato, Mexico

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017*).

Presented this 3rd day of July 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1700.01
Valid to December 31, 2024

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