



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

LABORATORIO CENTRAL DE BADER DE MEXICO<sup>1</sup>

Bader de Mexico  
 Sigma 601, Parque Industrial Delta  
 Leon, Guanajuato C.P. 37179 MEXICO  
 Juanita Landin Phone: 52 477 152 4616  
 Juanita.Landin@bader-leather.com

MECHANICAL

Valid To: December 31, 2018

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 Method**

**Test Description**

Fastness Tests

DIN EN ISO 105-B06	Colorfastness of Leather to Light (Xenon Lamp)
GMW 14162	Colorfastness of Leather to Artificial Light (Weather-Ometer)
DIN EN ISO 105-E04	Colorfastness of Leather to Perspiration
ISO 15701	Colorfastness of Leather in Respect of Staining Plasticized Polyvinyl Chloride (PVC)
ISO 11640	Colorfastness to To and Fro Rubbing
ISO 11644; DC DBL 5310; GMW 15717	Adhesion of Finish
AATCC 8	Colorfastness to Crocking
GMW 3402	Soiling and Cleanability
GMW 3259	Resistance to Mildew
ASTM D523	Standard Test Method for Specular Gloss
ASTM D2244; DIN EN ISO 105-105	Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
DIN EN ISO 2589, DIN EN ISO 5084; ASTM D1813	Measurement of Thickness

**Test Method**

**Test Description**

Fastness Tests (cont'd)

DIN EN ISO 2420; ASTM D3776; GMW 3182	Measurement of Apparent Density (Mass / Unit Area)
DIN EN ISO 3376, DIN EN ISO 13934-1; GMW 3010	Measurement of Tensile Strength and Percentage Elongation
DIN EN ISO 5402-1	Measurement of Flexing Endurance of Light Leathers and their Surface Finishes
DIN EN ISO 14268	Measurement of Water Vapor Permeability
DIN 53362; GMW 3390, 14134; DIN EN ISO 17235; 8102Z-SZN-A320, 6.1.8	Apparent Bending Modulus of Plastics and Depression by Means of a Cantilever Beam
ASTM D2097	Flex Testing of Finish on Upholstery Leather
ASTM D3884; ISO 17076; GMW 3208; 8102Z-SZN-A320, 6.2.6.1	Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head (Taber) Method)
ASTM D4157	Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder (Wyzenbeek) Method)
DIN EN ISO 12947-1, -2	Determination of the Abrasion Resistance of Fabrics by the Martindale Method
DIN EN ISO 3377-1; ISO 13937-2	Measurement of Tear Strength
DIN EN ISO 23910; GMW 14146 (B)	Determination of Stitch Tear Resistance
FMVSS 302; DIN 75200; DBL 5307 (Part 5.1); BMW GS97038; GMW 3232	Flammability of Interior Material
SAE J1756 (Gravimetric); DIN 75201(B); DIN EN 17071 (B); GMW 3235 (B)	Fogging Characteristics of Interior Automotive Material
VDA 270; GMW 3205	Hot Odor Test for Insulation Material
GMW 3211; VW PV 3909	Static Elongation (Stretch and Set)
GMW 14124 Cycle S and Q	Automotive Environmental Cycles
GMW 14126, 14127	Resistance to Cold Crack
GMW 14140	Water Vapor Permeability
GMW 3405	Resistance to Seam Fatigue

**Test Method****Test Description**Chemical Analysis (cont'd)

ISO 4684	Determination of Volatile Matter
DIN EN ISO 4048	Determination of Substances (Fats and Other Solubles) Soluble in Dichloromethane
EN ISO 4047	Determination of Sulfated Total Ash and Sulfated Water Insoluble Ash
DIN EN ISO 5398-1	Determination of Chromic Oxide
DIN EN ISO 4045	Determination of pH Value and Difference Figure of an Aqueous Extract
GMW 14102	Resistance to Water Spotting
EN ISO 2411; GMW3220	Separation Strength
ISO 105-A03	Visual Evaluation of Color Change by Grey Scale

SLC = Society for Leather – Chemical test  
IUC= International Journal of Leather – Chemical test

<sup>1</sup>This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratories listed below:

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

**Test Method****Test Description**

DIN EN ISO 2589, DIN EN ISO 5084; ASTM D1813	Measurement of Thickness
DIN EN ISO 2420; ASTM D3776; GMW 3182	Measurement of Apparent Density (Mass / Unit Area)
DIN EN ISO 3377-1; ISO 13937-2	Measurement of Tear Strength
DIN EN ISO 17235; GMW 14134 (BLC ST300); GMW3990; DIN 53362; 8102Z-SZN-A320, 6.1.8	Apparent Bending Modulus of Plastics and Depression by Means of a Cantilever Beam
ISO 4684; PR362 BMW	Determination of Volatile Matter
EN ISO 2411; GMW 3220	Separation Strength



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

**Test Method**

**Test Description**

DIN EN ISO 2589; ASTM D1813;  
DIN EN ISO 5084

Measurement of Thickness

DIN EN ISO 2420; ASTM D3776; GMW 3182

Measurement of Apparent Density  
(Mass / Unit Area)

DIN EN ISO 17235; GMW 14134 (BLC ST300);  
GMW3990; DIN 53362;  
8102Z-SZN-A320, 6.1.8

Apparent Bending Modulus of Plastics and  
Depression by Means of a Cantilever Beam

EN ISO 2411; GMW 3220

Separation Strength



## *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 17025:2005 *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 2<sup>nd</sup> day of May 2017

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 1700.01  
Valid to December 31, 2018

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