



The American Association for Laboratory Accreditation

World Class Accreditation

# Accredited Laboratory

A2LA has accredited

## ACCULAB INC.

*El Paso, TX*

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 10<sup>th</sup> day of July 2008.



A handwritten signature in black ink, appearing to read "Peter Abney".

President & CEO  
For the Accreditation Council  
Certificate Number 2692.01  
Valid to June 30, 2010

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ACCULAB INC.  
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El Paso, TX 79924  
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MECHANICAL

Valid To: June 30, 2010

Certificate Number: 2692.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on polyurethane foam (flexible and semi-rigid), foam / fiberglass laminated boards and foam / fabric laminated rolls:

<u>Test Description</u>	<u>Test Method(s)</u>
Adhesion	ASTM: D413 (A, B), D751 (50-53), D903 Chrysler LP-463LB-10-01 FLTM BN 151-05 GM 3602M (3.5) HES D6506-00 (5.24) NES 87000 NDS00 TSL: 2100G (4.39), 2105G (4.11), 5100G (4.5)
Adhesion (Bond Strength)	GMW 3220
Air Permeability	ASTM: D737, D3574 (G) HES D6506-00 (5.17) TSL: 2100G (4.6), 2107G (4.1)
Ball Rebound	ASTM D3574 (H) ESX-83218 (4.15) JIS K6400 (9.1.4) TSM 7100G (4.7)
Bow and Skew	ASTM D3882 Chrysler LP-463KB-14-01 GMW 3023
Breaking Strength	ASTM D751 (11)
Cleaner Resistance	GMW 3402
Circular Modulus	TSL: 2100G (4.11), 2104G (4.8)
Cold Cracking	ASTM D1912 Chrysler LP-463KB-28-01 (Method A) GM 9140P
Cold Resistance	MS-AY 310 (3.3)

<u>Test Description</u>	<u>Test Method(s)</u>
Color Fastness to Elevated Temperatures	GM 2737M (6.2)
Color Fastness to Light (Xenon)	AATCC 173 GMW 3414 SAE: J1545, J1767, J2412 TSL: 2100G (4.28), 2106G (4.8)
Color Fastness to Rubbing (Crocking)	AATCC 8 FLTM BN 107-01 (Procedure A) SAE J861
Compression Deflection Stress	ISO 3386-1
Compression Force Deflection	ASTM: D1621, D3574 (C) BS 4443 (Part 2) DIN: 53421, 53577 ESX-83218 (4.4/4.7) GMI 60283 (Part 8) Renault D41 1003
Compression Set (Normal)	ASTM D3574 (D, J1, J2) DIN 53572 ESB-M17H93-C2, C3, C4 (3.3.4, 3.4.9) ESX-83218 (4.9) FLTM BN 115-07 FNMN-LOS-ST-10-6-01E (4.7.6) GMI 60283 (Part 4) ISO 1856 (A) JIS K6400 (7) NES M0086 (8) Renault D45 1046 TSM 7100G (4.8)
Conditioning	ASTM D3574 (Section 6) GMW 3221
Crease	GM 9201P TSL: 2100G (4.21), 2104G (4.9) WSS: M8P3 (3.29.1), M8P18 (3.13.2)
Curling	GM: 2737M (5.9), 9330P GMW: 4089, 4217 (5.3.7) WSS: M8P3 (3.28), M8P18 (3.19)
Density	ASTM D3574 (A) DIN 53420B ESX: 62101 (4.3), 83218 (4.1) FNMN-LOS-ST-10-6-01E (4.7.1) GMI 60283 (Part 1) HES D6506-00 (5.1) ISO 845 JIS K6400 (5) NES M0086 (4) TSM 7100G (4.1)

*Peter Almyer*

<u>Test Description</u>	<u>Test Method(s)</u>
Dimensional Stability	ASTM D2126 GMW 4217 SAE: J315 (15), J883 TSL: 2100G (4.5), 2104G (4.5)
Environmental Aging	ASTM: D1735, D3574 (J1, J2, K) Chrysler LP: 463KC-15-01, 463LB-12-01, 463LB-13-01 FLTMM BO 12-01 GM: 9131P, 9200P, 9505P (Cycle M) GMI 60283 (Parts 5-6) GMW 14124 ISO 2440 SAE J323
Fatigue (Flex Fatigue)	ASTM D3574 (I1)
Fiber Degradation	GMW 3387
Flammability	CAL 117, Section A, Part I, Vertical Burn CAL 117, Section D, Part II, Smoldering
Flammability, Horizontal Burn	ASTM D5132 DIN 75200 ESX-60410 FLTMM BN 024-02 FNMN-LOS-ST-10-6-01E (4.7.7) FMVSS 302 GM: 6090M, 9070P GMW 3232 HES: C206-99 (A), D6003-93 ISO 3795 MES CF 050E MS JP 9-4 NES M0094 SAE J369 TSM 0500G
Flexibility	Chrysler LP-463LB-09-01 ESB: M2D243-A (3.3.8.2), M4D113-C (3.4.2) FLTMM BN 102-01 (Procedure A) WSB M17H93-C8 (3.6.6)
Fogging	Chrysler LP-463DB-12-01 GM 9305P GMW 3235 FNMN-LOS-ST-10-06-01E (4.7.9) SAE J1756 (Photometric) TSM 0503G
Heat Discoloration Resistance	NES 8700 NDS00 (12-1-1 (3))
Hydrolytic Stability	GM 9231P

*Peter Almyer*

<u>Test Description</u>	<u>Test Method(s)</u>
Indentation Force Deflection	ASTM D3574 (B) ESX-83218 (4.8) JIS K6400 (6) NES M0086 (5) SAE J815 TSM 7100G (4.2)
Inverted Bending Test	TSL: 2100G (4.44), 2104G (4.14)
Lint Retention	GMW 3347
Load Height Change	ESB: M2D243-A (3.3.8.1), M4D113-C (3.4.1)
Mass Per Area	ASTM D3776 FLTM BN 106-01 GM 2737M (5.1) GMW 3182 SAE J860 TSL: 2100G (4.1), 2104G (4.1)
Mildew Resistance	GM 9128P GMW 3259
Moisture Uptake	WSS-M2D491-A1 (3.5.14)
Odor	ESB-M4D113-C (3.7) ESX-62101 (4.9) FLTM: BO 131-01, BO 131-03 GMW 3205 SAE J1351
Pile Distortion	GMW 4141
Ravel Resistance	GMW 3217
Resistance to Blocking	GM 2737 (5.14)
Seam Fatigue	GMW 3405 TSL: 2100G (4.17), 2105G (4.5)
Seam Strength	Chrysler LP-463KB-13-01 FLTM BN 119-01 GM 9129P TSL: 2100G (4.16), 2105G (4.4), 2106G (4.4)
Shrinkage	FLTM BN 105-01
Solvent Resistance (Cleanability)	ESB: M2D243-A (3.3.13), M4D113-C (3.10) Chrysler LP-463KC-04-01 GM 6291M (3.1.2) MS-AY: 309 (Table 2), 310 (Table 2)
Staining	GM 9141P SAE J2412
Stiffness / Softness	TSL: 2100G (4.45), 2104G (4.15)

*Peter Almyer*

<u>Test Description</u>	<u>Test Method(s)</u>
Stress Relaxation	TSM 7100G (4.4)
Stretch and Set	GMW 3211 HES D6506-00 (5.5) SAE J855 TSL: 2100G (4.9), 2104G (4.6), 2105G (4.2)
Taber Abrasion	GMW 3208 SAE J948 (3) TSL: 2100G (4.18), 5100G (4.12)
Tear Resistance	ASTM: D624 (Die C), D1117, D2261, D3574 (F), D5587, D5733 GMW 3326 ISO: 8067, 13937-2 JIS K6400 (11) NES M0086 (12) TSL: 2100G (4.12), 2105G (4.3), 2106G (4.2, 4.3) TSM 7100G (4.6)
Tensile Strength / Elongation	ASTM: D412, D3574 (E), D5034 DIN 53571 A2 ESX-62101 (4.4) GMW 3010 ISO 1798 JIS K6400 (10) NES M0086 (6) TSL: 2100G (4.7), 2105G (4.1), 2106G (4.1) TSM 7100G (4.5)
Thickness	ASTM: D1777, D1813, D3574 (8) ESX: 83217 (4.3), 83220 (4.2.2) ISO 5084 SAE J882 TSL: 2100G (4.47), 2104G (4.16), 5702G (6.4)
Water Absorption	SAE J315 (12)
Water Spotting	GM: 9131P, 9133P GMW 14102

*The 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.*

