



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

RELIABLE ANALYSIS - SHANGHAI, INC.

Shanghai, CHINA

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 27th day of August 2009.





President & CEO
For the Accreditation Council
Certificate Number 0386.04
Valid to May 31, 2011

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

RELIABLE ANALYSIS – SHANGHAI, INC.
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 Shanghai, China 201319
 Shuren Lang Phone: 86 21 6818 3293

MECHANICAL

Valid To: May 31, 2011

Certificate Number: 0386.04

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on adhesives, coatings (paints), deadeners, elastomers, foams, foundation board, metal, automotive paperboard, plastics, rubber, sealers, tapes, and automotive textiles:

<u>Test</u>	<u>Standard</u>
Abrasion Resistance / Wear Resistance Taber	ASTM: D3884, D4060; Chrysler LP-463KB-21-01; FLTM BN 108-02; GM 9515P; GME: 60345, 60400; GMW 15487
Wyzenbeek	Chrysler LP-463KB-06-01; GM 9082P; SAE: J948, J1530
Acid Spotting Resistance	FLTM BI 113-02
Adhesion Test	ASTM D3359; FLTM BI 106-01/-02; GM: 9071P, 9502P; GMW 14829
Adhesive Strength	FLTM BN 151-01; GM 3602M (Sec. 3.5)
Ash Content	ASTM D2584; ISO 3451-1 (Method A)
Asphalt Staining of Exterior Plastics	Chrysler LP-463PB-57-02
Bleeding, Perspiration and Water Spotting	FLTM AN 101-01



<u>Test</u>	<u>Standard</u>
Blocking Resistance	GMW 14132
Bond Strength	Chrysler LP-463LB-10-01 (except Proc. C); FLTM BN 121-01
Breaking Strength, Grab Method	ASTM: D2208, D5034
Breaking Strength and Elongation	ASTM D5035 (Strip Method)
Brittleness by Means of a Mandrel	GM 9503P
CASS Corrosion	ASTM B368; FLTM BQ 105-01; GM 4476P
Cellular Material Urethane Foams	ASTM D3574 (except Secs. 23-29, 76-112)
Charpy Impact	ASTM D256; ISO 179
Chemical Resistance	FLTM BO-101-05; GM 9900P
Chip Resistance (Gravelometer)	GM 9508P; SAE J400
Cleanability	GM 9126P
Cleanability and Soilability	Chrysler LP-463KC-04-01; FLTM BN 112-08
Cold Cracking Resistance	ASTM D1912; GM 9140P (Part A); GMW 14127 (Part A)
Color Change Due to Temperature and Humidity	GM 9131P
Color Measurement	ASTM D2244; GMW 4750; SAE J1545
Colorfastness to Crocking	AATCC Method 8; GM 9033P
Colorfastness to Light	AATCC Method 16
Colorfastness to Water	AATCC Method 107
Compression Load Deflection	ISO 3386
Compression Set	ASTM D3574 (Method D); ISO: 1856, 3386-1
Crazing of Vinyl Material	GM 9143P

Peter Mlynar

<u>Test</u>	<u>Standard</u>
Crocking	FLTM BN 107-02
Crock Mar Resistance	Chrysler LP-463PB-54-01; FLTM BN 107-01; SAE J861
Cure Test	GM 9509P
Density	ASTM D1475; FLTM BN 106-01; ISO 1183-1 (Method A)
Dime Scrape	GM 9506P
Emissions Test	GME 60271; GMW: 8081, 14236; PV 3341; TS-INT-002; VDA 277 (TVOC only)
Environmental Cycle	Chrysler LP-463LB-12-01; FLTM BQ 104-07; GM: 9200P, 9505P; GMW: 3286, 14124, 14729; ISO 188
Fabrics	
Test Methods, Coated Fabrics	ASTM D751 (except Secs. 22-25, 41-49, 54-63, 65-70, 89-98); GMW: 14122, 14231
Length	ASTM D3773 (Option A)
Width	ASTM D3774
Fabric Count	ASTM D3775
Mass	ASTM D3776 (Option C)
Bow and Skew	ASTM D3882
Weight Loss	GM 9337P
Fiber Deterioration	GM 9771P; GMW 3387
Flammability	FMVSS 302; GB 8410-2006; GM 9070P; GMW 3232; Honda HES D 6003; ISO 3795; Mazda MES CF 050; Mitsubishi ES - X60410; SAE J369
Flex Test / Newark Flex / "W" Flex	ASTM D2097; FLTM BN 102-02; GM 9226P
Flexibility of Automotive Textiles	GMW 3390

Peter Almyer

<u>Test</u>	<u>Standard</u>
Flexural Strength / Flexural Properties	ASTM D790; ISO 178
Fogging Test	Chrysler LP-463DB-12-01; GM 9305P; GME 60326; GMW 3235; PV 3015; SAE J1756
Friction Test	ASTM D1894; FLTM BN 014-03
Gloss Measurement	ASTM D523; Chrysler LP-463PB-11-01; FLTM BI 110-01
Heat Deflection Temperature (HDT)	ISO: 75, 306
Hydrogen Sulfide Resistance	ASTM D1712; FLTM AN 102-01; GM 9069P; SAE J322
Immersion	FLTM BI 104-04
Impact Resistance	FLTM BO 151-01; GM: 9032P, 9300P; GMW: 14093, 14127
Izod Impact	ASTM D256; ISO 180
Lint Pickup and Lint Retention	GM 9139P
Lint Retention	GMW 3347
Loop Pullout	GM 9127P
Mandrel Bend	GM 9503P (Sec. 12)
Mar Resistance	Chrysler LP-463DD-18-01; FLTM BN 108-13; GM 9150P; GMN 3943; GMW: 14130, 14688; PV 3952
Mass and Thickness Determination	GMW 3182; ISO 5084; SAE: J860 (Mass), J882 (Thickness)
Mold Shrinkage	ISO 294
Multi-axial Impact	ASTM D3763; GM 9904P; ISO 6603



<u>Test</u>	<u>Standard</u>
Odor Acceptability	GM 9832P
Odor Test	FLTM BO 131-01; GME 60276; GMW 3205; SAE J1351
Peel Strength	ASTM D903; Chrysler LP-463TB-03-01; FLTM BN 151-05; GM 9797P
Perspiration Staining Resistance	Chrysler LP-463KC-21-01; FLTM BI 113-03; GM: 9240P, 9517P; GMW: 14296, 14334
Pliability	GM: 9151P, 9664P
Poisson's Ratio	ASTM E132
Scuffing Resistance	FLTM BN 108-04; GM 9150P; SAE J365
Seam Strength	Chrysler LP-463KB-13-01; GM 9129P
Shear Test	FLTM BU 101-06
Shrinkage Test	FLTM: BN 005-02, BN 105-01; GMW 3262 (Sec. 3.2.6)
Solvent Wipe Resistance	Chrysler LP-463PB-31-01; GM 9509P
STEP Test	ASTM: B465, B764; GMW 14688
Stretch and Set of Textile and Leather	SAE J855
Suntan Lotion and Insect Repellant	Ford: DVM 0036, DVM 0039; GMN 10033; GMW 14445
Tensile Strength / Tensile Properties	ASTM: D412 (Method A, except Secs. 12.2 and 12.3), D638, D882, D1708, D2256; Chrysler LP-463CB-08-01; FLTM BN 150-04; GB 10654-89; GMW 3010; ISO: 527, 1798

Peter Mlynski

<u>Test</u>	<u>Standard</u>
Tear Strength / Resistance	ASTM: D624 (Die C, except Appendix), D1004, D2261, D5587, D5733; FLTM BN 150-02; GM 9149P
Thermal Shock	FLTM BI 107-05; GM 9525P
Thumbnail Hardness	GM 9507P
Vicat Softening	ISO 306
Water Immersion	FLTM BI 104-01
Water Spotting and Soap Spotting Resistance	Chrysler LP-463KC-03-01; FLTM AN 101-01; GM 9133P
Weight Solid	FLTM BI 102-01
Wicking Test	GM 9176P; SAE J913
Xenon Exposure	AATCC Method 16; GME 60292; GMW 3414; ISO 105-B06; PV 1303; SAE: J1885, J1960, J2412, J2527

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.

