



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

RAVAGO MANUFACTURING AMERICAS, LLC.  
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MECHANICAL

Valid To: September 30, 2012

Certificate Number: 1181.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on plastics:

<u>Test Methods</u>	<u>Test</u>
ASTM D256, Method A, E	Impact Resistance of Notched Specimens of Plastics
ASTM D523	Specular Gloss
ASTM D570	Water Absorption of Plastics
ASTM D618	Conditioning of Plastics for Testing
ASTM D635	Horizontal Burn Rate (HB)
ASTM D638	Tensile Properties of Plastics
ASTM D648, Method B	Deflection Temperature of Plastics under Flexural Load
ASTM D789	Determination of Relative Viscosity
ASTM D789-94 (Withdrawn 1998)	Determination of Melting Point
ASTM D790	Flexural Properties of Unreinforced and Reinforced Plastics & Electrical Insulating Materials
ASTM D792, Method A	Specific Gravity (Relative Density) & Density of Plastics by Displacement
ASTM D955	Measuring Shrinkage from Mold Dimensions of Molded Plastics
ASTM D1238	Flow Rates of Thermoplastics by Extrusion Plastometer
ASTM D1525	Vicat Softening Temperature of Plastics
ASTM D2244	Calculation of Color Differences from Instrumentally Measured Color Coordinates
ASTM D3045	Heat Aging of Plastics Without Load

<u>Test</u>	<u>Test Method</u>
ASTM D3763	High Speed Puncture Properties (Multi-Axial)
ASTM D3801	Vertical Burning Characteristics (94v)
ASTM D5048	Burning Characteristics Vertical / Burn-Through (95v)
ASTM D5630, Procedure B	Ash Content in Thermoplastic
ASTM D6869	Moisture in Plastics using Karl Fischer
GM 9904P	Multi-Axial Impact Test
ISO 62, Method 1	Determination of Water Absorption
ISO 75-1/2	Determination of Temperature of Deflection under Load - Parts 1 & 2
ISO 178	Determination of Flex Properties
ISO 179-1	Determination of Charpy Impact Strength
ISO 180/1A	Determination of Izod Impact Strength
ISO 306	Thermoplastic Materials - Determination of (VST)
ISO 527-1/2	Determination of Tensile Properties - Parts 1 & 2
ISO 1133	Determination of Melt Mass - Flow Rate (MFR)
ISO 1183-1, Method A	Methods for Determining the Density and Relative Density
ISO 1218-75, Procedure B (Withdrawn 1997)	Determination of Melting Point
ISO 294-4	Determination of Shrinkage
ISO 3451-1/4	Determination of Ash - Part 1 (Method A) & Part 4 (Polyamides)
ISO 6603-2	Determination of Puncture Impact (Multi-Axial)
ISO 15512, Method B	Moisture Determination
SAE J1885-01 (Withdrawn 2008), J2412	Accelerated Exposure of Automotive Interior Trim Components (Xenon Arc)
SAE J1960-04 (Withdrawn 2008), J2527	Accelerated Exposure of Automotive Exterior Materials (Xenon Arc)
ISO 11357-1 (-3)_	DSC – Differential Scanning Calorimetry
ISO 11358; ASTM E1131	TGA – Thermogravimetric Analysis
ASTM E168, E1252	IR – Infrared Spectroscopy





World Class Accreditation

The American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

## RAVAGO MANUFACTURING AMERICAS, LLC.

*Manchester, TN*

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 5<sup>th</sup> day of October 2010.



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

President & CEO  
For the Accreditation Council  
Certificate Number 1181.01  
Valid to September 30, 2012

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