



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

APS TESTING LABORATORY
 Prolongacion Serna y Calle 13 Bis #900
 Santa Ana Sonora, Mexico 84600
 Walter Mendivil Phone: 011 52 6413246000 ext 8-872

MECHANICAL

Valid To: August 31, 2018

Certificate Number: 2740.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on molded thermoplastic components and assemblies:

<u>Test</u>	<u>Test Parameters</u>
Axial Force Testing Insertion/Removal Force ¹	PF 10819 (0.1 to 500) lb force
Environmental Simulation Thermal ¹	PF 10819 (-40 to 120) °C
Gas Leak Testing-Air Pressure Decay ¹	SAE J2044 ES-E37E-9E498-AA (0.1 to 200) kpa
Underwater Bubble Testing ¹	SAE J2044 (0 to 150) cc/s
Gas Flow Testing Mass Flow Measurement ¹	PF 10819 0.1 SCCM to 500 SLPM
Pneumatic Testing Air Pressure Measurement ¹	PF 10819 (0 to 100) psi
Torsional Testing Torque ¹	ESBC3Q-6K817-AA (0 to 75) Nm
Mass Measurement Testing ¹	GMN6752 (0 to 100) g

¹ Also using customer-specified methods directly related to the types of tests and parameters listed above.

I. Dimensional Testing²

Parameter	Range	CMC ³ (±)	Technique / Method
Length ⁴ –			
1D	Up to 8 in	0.0018 in	Caliper / Micrometer / Grade 1 gage blocks
3D	(2 x 6) in	0.0002 in	Optical comparator / Grade 1 gage blocks
Angle ⁴	0° to 360°	0.63°	Protractor

² This laboratory does not offer commercial dimensional testing service.

³ Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

⁴ This test is not equivalent to that of a calibration.



Accredited Laboratory

A2LA has accredited

APS TESTING LABORATORY

Santa Ana Sonora, 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 27th day of October 2016.

A handwritten signature in blue ink, appearing to read "J. C. Burt".

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 2740.01
Valid to August 31, 2018

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