

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, 2012

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 tests¹:

<u>Test</u>	<u>Test Parameters</u>
Axial Force Testing Insertion/Removal Force	PF 10819 (0.1 to 500) lb force
Environmental Simulation Thermal	PF 10819 (-40 to 120) °C
Gas Leak Testing-Air Helium Helium Mass Spectrometer	SAE J2044 (Leak Detection)
Pressure Decay	SAE J2044 (0.1 to 200) kpa
Underwater Bubble Testing	SAE J2044 (0 to 150) cc/s
Gas flow Testing Mass Flow Measurement	PF 10819 0.1 SCCM to 500 SLPM



Test

Test Parameters

Pneumatic Testing

Air Pressure Measurement

PF 10819
(0 to 100) psi

Torsional Testing

Torque

Per Customer Request
(0 to 75) Nm

Mass Measurement Testing

Per Customer Specific Specifications
(0 to 100) g

Dimensional Testing

<u>Parameter</u>	<u>Technique</u>	<u>Range</u>	<u>CMC*(±)</u>	<u>Standards</u>
Length (1 Dimensional) (2 Dimensional) (3 Dimensional)	Caliper Micrometers Optical comparator	(0 to 8) in (0 to 1) in (2 x 6) in	0.0018 in 0.0012 in 0.0002 in	Grade 1 gage blocks Grade 1 gage blocks Grade 1 gage blocks
Angle	Protractor	(0 to 360)°	1.6°	Angle Blocks

*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.

¹Using test methods supplied or approved by the client directly related to the design and manufacture of molded thermoplastic components and assemblies and within the parameters listed above.





World Class Accreditation

The American Association for Laboratory Accreditation

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 19th day of July 2010.



A handwritten signature in black ink, appearing to read "Peter Meyer", written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 2740.01
Valid to August 31, 2012

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