SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

MPC TESTING LABORATORY
837 Walworth St.
Walworth, WI 53184
James Mosher Phone: 262 275 5791

MECHANICAL

Valid To: May 31, 2017 Certificate Number: 0821.01

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

Test Type/Technology:	Test Method[1]:
Axial Force Testing	
Insertion / Removal Force (0 to 2000) lb force	C25018 Rubber Connector Pull Off Method
Electrical Testing	
Electrical Characteristics (0 to 100) VDC; 120 VAC, 100Ω to 10MΩ	C25126 Pull Testing using the Voltage Recorder
Environmental Simulation	
Thermal (-55 to 315) °C	C25101 Chrysler Oil Fill Cap Validation Method
Humidity (5 to 95) % R.H.	C25101 Chrysler Oil Fill Cap Validation Method
Vibration (5 to 2000) Hz (-55 to 160) °C	C25101 Chrysler Oil Fill Cap Validation Method
Gas Leak Testing – Air	
Pressure Decay (0.01 to 10) cc/m	C25011 Air Leakage Measurement
Gas Flow Testing	
Mass Flow Measurement 0.5 SCCM to 1000 SLPM .001 to 1000 LPM	C25008 Generic Flow Rate Measurement
Gravitational Effect Testing	
Mass Measurement (0 to 2) kg	C25155 Carbon Canister Butane Working Capacity

Test Type/Technology:	**Test Method[1]:**
Hardness Testing	
Durometer Shore A	C25021 Rubber Durometer Hardness Testing
Pressure Testing	
Air Pressure Measurement (0 to 250) psi	C25009 Generic Pressure Measurement Method
Liquid Pressure Measurement (0 to 10000) psi	C25009 Generic Pressure Measurement Method
Torsional Testing	
Torque (0.10 to 135) Nm	C25101 Chrysler Oil Fill Cap Validation Method

Dimensional Testing[2]:

Parameter	Range	CMC[3] (±)	Technique / Method
Length[4] - 1D - 2D	 Up to 6 in Up to 1 in	 0.001 in 0.001 in	 Direct comparison / Caliper Optical measurement / Nikon microscope
Angle[4]	0° to 360°	1.0°	Direct comparison / Goniometer

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

[2] This laboratory does not offer commercial dimensional testing services.

[3] Calibration and Measurement Capability Uncertainty (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. CMC's 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

MPC TESTING LABORATORY

Walworth, WI

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 18th day of June, 2015.

President & CEO
For the Accreditation Council
Certificate Number 0821.01
Valid to May 31, 2017
Revised: April 29, 2017

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