



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Vi-Chem Corporation dba Americhem of Michigan, Inc.  
and owned by Americhem, Inc.**

**55 Cottage Grove Street SW  
Grand Rapids, MI 49507**

**(and the satellite as listed on the scope)**

Fulfills the requirements of

**ISO/IEC 17025:2017**

In the field of

**TESTING**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 06 October 2022

Certificate Number: L2148



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
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 April 2017).

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Vi-Chem Corporation dba Americhem of Michigan, Inc.  
and owned by Americhem, Inc.**

55 Cottage Grove Street SW  
Grand Rapids, MI 49507  
Linda Boyett [lboyett@americhem.com](mailto:lboyett@americhem.com)  
616 247 8501

**TESTING**

Valid to: **October 06, 2022**

Certificate Number: **L2148**

**Mechanical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Product Tested	Key Equipment, Technology
Asphalt Staining	Chrysler: LP-463PB-57-02 Ford: WSK-M4D689-A1 (Par 3.6)	Plastics / TPE's	Spectrophotometer
Chemical Resistance	GM: GMW14334	Plastics / TPE's	
Cleanability	Chrysler: LP-463KC-04-01	Plastics / TPE's	Crockmeter, AATCC Gray Scale for Staining
Cold Flexibility	Chrysler: LP-463DD-07-01 Ford: FLTM BN 102-01 Method A GM: GMW16746 SAE J323  Test temp: (-40 to 0)°C	Plastics / TPE's	Cold Box / Freezer, Metal Mandrels, Mandrel Fixture, Temperature Probe,
Color Reading	ASTM D2244 SAE J1545	Plastics / TPE's	Spectrophotometer
Compression Set	ASTM D395 Method B ISO 815 – 1,2  Test Temp: (-40 to 250) °C	Plastics / TPE's	Compression Device, Oven, Cold Box / Freezer, Micrometer
Crock and Mar Resistance	Chrysler: LP-463PB-54-01  60° Gloss only	Plastics / TPE's	Crockmeter, Glossmeter
Crocking	Ford: FLTM BN 107-01 SAE J861 ISO 105-X12	Plastics / TPE's	Crockmeter, AATCC Gray Scale for Staining, Light Booth

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Five Finger Scratch	Ford: FLTM BO 162-01; FLTM BN 108-13 GM: GMW14698	Plastics / TPE's	Five Finger Scratch Apparatus, Spring Balance, Stop Watch, Light Booth, AATCC Gray Scale Rating for Color Change
Flexural Properties	ASTM D790 ISO 178  (0 to 500) N (0 to 5 000) N (2,4,6,8) in	Plastics / TPE's	Tension/Compression Test Machine with Flex Mod Fixture
Fluid Resistance	ASTM D471 ISO 1817	Plastics / TPE's	Glass Test Tubes with stoppers, spacers and hangers, Oven
Fluid Staining	Chrysler: LP-463PB-57-03	Plastics / TPE's	Spectrophotometer
Fogging	Chrysler: LP-463DB-12-01 GM: GMW3235 SAE J1756  Test Temp: Cool: (21 to 38) °C Hot: (85 to 120) °C  (2 to 100) %	Plastics / TPE's	Fog Test Unit, Glossmeter, Balance, Glassware, glass plates, foil
Gardner Impact	ASTM D5420  (0 to 8.9) J	Plastics / TPE's	Impact Tester
Gloss Evaluation	ASTM D523 ASTM D2457  60° gloss only	Plastics / TPE's	Glossmeter
Hardness (Shore A, C, D)	ASTM D2240 ISO 868  20A to 90A 20C to 90C 10D to 90D	Plastics / TPE's	Durometer
Heat Aging	ASTM D573 ISO 188 (sec 8.1)	Plastics / TPE's	Oven
High Temperature Humidity Aging	GM: GM9329P	Plastics / TPE's	Oven, Specimen tray with wire gauze & clips, Tension/Compression Test Machine

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Hot/Cold Cycles	Chrysler: LP-463DD-08-02	Plastics / TPE's	Oven Cold Box / Freezer Micrometer, Calipers, Ruler, Balance
Mar Resistance	GM: GMW14130	Plastics / TPE's	Mar Tester, Spring Balance,
Melt Flow Rate	ASTM D1238, Type A ISO 1133-1	Plastics / TPE's	Melt Flow Indexer and Dies
Mold Shrinkage	ISO 2577	Plastics / TPE's	Injection Molder, Compression Molder, Calipers
Moisture Content	ASTM D6980	Plastics / TPE's	Moisture Analyzer
Odor	Ford: FLTM BO 131-03 SAE J1351 GM: GMW3205	Plastics / TPE's	Glass Jars & Odorless Seals, Metal Cans, Stainless Steel Support Frame, Oven, Desiccator
Oven Aging	SAE J2236	Plastics / TPE's	Oven, Tension/Compression Test Machine
Resistance to Scuffing	SAE J365	Plastics / TPE's	Rotary Platform Double Head Abrader, Abrasive Wheels, & Accessory Loads
Soilability	Chrysler: LP-463KC-04-02	Plastics / TPE's	Wear Test Meter, AATCC Gray Scale for Staining
Soilability / Cleanability	Ford: FLTM BN 112-08	Plastics / TPE's	AATCC Gray Scale for Color Change
Soilability / Cleanability	GM: GMW3402	Plastics / TPE's	Crockmeter, Balance, Temperature Probe / Thermometer, AATCC Gray Scale for Color Change & Gray Scale for Staining
Specific Gravity (Relative Density)	ASTM D792 ISO 1183-1 Method A  (0.010 to 25.000) g/cm <sup>3</sup>	Plastics / TPE's	Densimeter / Analytical Balance with Immersion Vessel, Temperature Probe / Thermometer
Staining	Ford: FLTM BN 103-01	Plastics / TPE's	Glass Plates, Oven, Weights
Taber Wear Resistance of Trim Materials	Chrysler: LP-463KB-21-01 ASTM D3884 GMW3208	Plastics / TPE's	Rotary Platform Double Head Abrader, Abrasive Wheels, & Accessory Loads

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<b>Specific Tests and/or Properties Measured</b>	<b>Specification, Standard, Method, or Test Technique</b>	<b>Items, Materials, or Product Tested</b>	<b>Key Equipment, Technology</b>
Tear Strength	ASTM D624 ASTM D1004 ISO 34-1 Method B  Test temp: (-40 to 250)°C  (0 to 3700) kN/m (0 to 370) kN/m	Plastics / TPE's	Injection Molder, Compression Molder, Cutting Dies, Tension/Compression, Test Machine, Micrometer
Tensile Properties	ASTM D412 Method A ISO 37, Type 1 ISO 527-1,2,3 Type 5  Test temp: (-40 to 250)°C Tensile Strength, Ultimate Elongation and Stress at intermediate elongations  (Up to 1450) MPa	Plastics / TPE's	Injection Molder, Compression Molder, Cutting Dies, Tension/Compression, Test Machine, Micrometer
Tensile Properties	ASTM D638  Test temp: (-40 to 250)°C Stress at Yield and Stress at Break only  (Up to 1450) MPa	Plastics	Injection Molder, Compression Molder, Cutting Dies, Tension/Compression, Test Machine, Micrometer
Volatile Loss	ASTM D1203 Method A Chrysler: LP-463DD-04-01 Rev C ISO 176 Method A	Plastics / TPE's	Balance, Oven, Metal Containers, Wire Cages, Micrometer, Glassware, Desiccator,
Wear Resistance of Soft Trim Materials	Chrysler: LP463KB-06-01	Plastics / TPE's	Wear Test Meter,
Xenon Arc-Type Weathering	SAE J2527 SAE J2412	Plastics / TPE's	Xenon Test Chambers
Flammability	ISO 3795 GM: GMW3232 SAE J369	Plastics / TPE's	Flame Chamber Test Cabinet, Ruler, Stop Watch

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Satellite Site**

**Americhem, Inc.**

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 Cuyahoga Falls, OH 44221  
 Linda Boyett [lboyett@americhem.com](mailto:lboyett@americhem.com)  
 330 929 4213 ext. 1323

**TESTING**

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Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Product Tested	Key Equipment or Technology
Color Evaluation	ASTM D2244	Plastics / TPE's	Spectrophotometer
Gloss Evaluation	ASTM D523	Plastics / TPE's	Glossmeter
Tacky Testing	Ford: FLTM BO-61-01	Plastics / TPE's	Xenon Test Chamber
Xenon Arc-Type Weathering	Ford: FLTM BO 116-01 Honda: HES D 6601, JIS B7754 Nissan: NES M0135 SAE J1885, SAE J2412, SAE J2527, Toyota: TSM0501G	Plastics / TPE's	Xenon Test Chamber

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2148.



R. Douglas Leonard Jr., VP, PILR SBU