

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

### CASCADE ENGINEERING - ANALYTICAL LAB 4855 37th Street S.E. Grand Rapids, MI 49512

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### **MECHANICAL**

Valid To: November 30, 2022 Certificate Number: 2263.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following <u>rubber and plastics tests</u>:

<u>Test Description</u> <u>Test Method or Standard<sup>1</sup></u>

Ash Content ASTM D5630 (Procedure B)

Conditioning ASTM D618; GMW 3221 (Code A); ISO 291

Density / Specific Gravity ASTM D792; ISO 1183-1 (Method A)

Dimensional Stability GMW 4217

Durometer Hardness (Shore A and D) ASTM D2240; ISO 868

Heat Age LP-463LB-13-01

Flammability FMVSS 302; ISO 3795

Flexural Strength and Modulus ASTM D790; ISO 178

Fogging Chrysler LP-463DB-12-01; GM 9305P (Inactive)<sup>2</sup>;

SAE J1756 (except section 9)

Fracture – Gardner Impact ASTM D5420

Fracture – Izod Impact ASTM D256

Heat Deflection Temperature ASTM D648 (Method B); ISO 75-1, -2

Low Temperature Flexibility GM 9503P (Inactive)<sup>2</sup>, GMW 14108, 16746;

WSS-M99-P32-C (Section 3.12)

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Test Description Test Method or Standard<sup>1</sup>

Melt Flow Index ASTM D1238 Procedure A; ISO 1133

Odor Ford FLTM BO 131-01; GMW 3205;

LP-463KC-09-01; SAE J1351

Shrinkage (Mold / Post) ASTM D955; ISO 294-4

Spectroscopy – FTIR ASTM E1421

Specular Gloss ASTM D523, D2457

Tear Strength ASTM D624, D1004; ISO 34-1 (Method B)

Tensile Strength ASTM D412 (Method A), D638; ISO 37, 527-1, 2

Thermal / Humidity Cycle WSS-M99 P32-B (Sections 3.4 & 3.8),

WSS-M99 P32-C (Section 3.8),

WSS-M99 P32-D1(Sections 3.8.2 &3.8.3);

LP-463LB-12-01 (Method A)

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<sup>&</sup>lt;sup>1</sup> When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

<sup>&</sup>lt;sup>2</sup> NOTE: This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



# **Accredited Laboratory**

A2LA has accredited

## **CASCADE ENGINEERING - ANALYTICAL LAB**

Grand Rapids, MI

for technical competence in the field of

## Mechanical Testing

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



Presented this 29th day of March 2021.

Vice President, Accreditation Services

For the Accreditation Council Certificate Number 2263.02

Valid to November 30, 2022