

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

### CASCADE ENGINEERING - ANALYTICAL LAB 4855 37th Street S.E. Grand Rapids, MI 49512 Logan Kucharski Email: logan.kucharski@cascadeng.com

#### MECHANICAL

Valid To: November 30, 2024

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(s)</u>	Test Method(s) <sup>1</sup>
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	CFR 571.302; ISO 3795
Flexural Strength and Modulus	ASTM D790; ISO 178
Fogging	Chrysler LP-463DB-12-01; GMW3235, Method A; 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; Ford BN 102-01, Procedure A, WSS-M99_P32-B (Section 3.8)

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Test(s)	Test Method(s) <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 (except $85^{\circ}$ )
Tear Strength	ASTM D624, Type C, T, ASTM D1004
Tensile Strength	ASTM D412 (Method A), ASTM D638 ( <i>except A.3</i> ); ISO 37, 527-1, 2
Thermal / Humidity Cycle	WSS-M99 P32-B (Section 3.4 ); WSS-M99 P32-C (Section 3.8); WSS-M99 P32-D1(Sections 3.8.2 &3.8.3); LP-463LB-12-01 (Method A)

<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*.

 $^{2}$  NOTE: This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

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# **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 14<sup>th</sup> day of March 2023.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 2263.02 Valid to November 30, 2024