SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EQUISTAR CHEMICALS, LP
A LyondellBasell Company
Lansing Automotive Technology and Development Center
3610 Forest Road
Lansing, MI 48910
Mr. Cory Blue Phone: 517 449 2483

MECHANICAL

Valid To: July 31, 2025 Certificate Number: 0875.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on polyolefins and polyolefin alloys:

Test	Test Method(s)
Adhesion	ASTM D3359; Ford FLTM BI 106-01 (Method D); GMW 14829
Ash Determination - Microwave Method	ASTM D5630, Procedure B; ISO 3451-1 (Method A)
Charpy Impact	ISO 179-1
Color Difference	ASTM E1331; SAE J1545
Coefficient of Linear Thermal Expansion (CLTE)	ASTM E228
Cure	GMW 15891
Differential Scanning Calorimetry (DSC)	ASTM D3418; ISO 11357 -1, -2, -3
Flammability	ISO 3795; FMVSS302
Flexural Properties	ASTM D790; ISO 178
Fuel Resistance	LP-463PB-31-01 (Method C)
Heat Deflection Temperature Under Load (HDT)	ASTM D648 (Method B); ISO 75-1 & 2
Heat Resistance	GMW 16172 (Table 1)
High Pressure Wash Resistance	GMW 16745 (Method B)
Hydrolysis	Ford FLTM BI 106-03
Izod Impact Resistance and Unnotched Impact	ASTM D256, D4812; ISO 180
Mandrel Bend	GMW16746; LP-463PB-44-01; WSS-M2P181-C, 3.5.1

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Test	Test Method(s)
Melt Flow	ASTM D1238; ISO 1133-1
Multiaxial Instrumented Impact	ASTM D3763; ISO 6603-2
Rockwell Hardness (R Scale)	ASTM D785; ISO 2039-2
Scratch and Mar Resistance	Ford FLTM BN 108-13; FLTM BO 162-01
Specific Gravity by Displacement	ASTM D792 (Method B); ISO 1183-1 (Method A)
Tensile Properties	ASTM D638; ISO 527-1 & 2
Thermomechanical Analysis (TMA)	ISO 11359-2
Tool Shrink	ISO 294-4; PTL WI/SOP 8.0 (Internal)
Water Immersion	Ford FLTM BI 104-01 (Part C)
Xenon Arc - Operating Procedure	ASTM G155; SAE J1885-2005, J1960-2004, J2412, J2527

Accredited Laboratory

A2LA has accredited

EQUISTAR CHEMICALS, LP

Lansing, 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 19th day of May 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0875.01
Valid to July 31, 2025
Revised May 22, 2025

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