



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

POLYMER DIAGNOSTICS INC.  
33587 Walker Road  
Avon Lake, OH 44012  
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MECHANICAL

Valid To: September 30, 2019

Certificate Number: 0514.01

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

<u>Test Description</u>	<u>Test Method or Standard</u>
Brittleness Temperature (Impact)	ASTM D746, D2137
Charpy Impact	ISO 179-1
Coefficient of Thermal Expansion	ASTM D696
Color Determination by Spectrophotometer	ASTM D2244, E1331
Conditioning of Plastics for Testing	ASTM D618; ISO 291
DC Resistance or Conductance	ASTM D257
Deflection Temperature Under Flexural Load	ASTM D648; ISO 75-1, -2
Dielectric Constant	ASTM D150
Dielectric Strength	ASTM D149
Durometer Hardness (Shore A and D)	ASTM D2240
Flexural Properties	ASTM D790; ISO 178
Flow Rate (Extrusion Plastometer)	ASTM D1238 (Procedures A and B); ISO 1133
Fusion of PVC Compounds	ASTM D2538
Impact Resistance (Izod)	ASTM D256; ISO 180
Impact Resistance (Tup)	ASTM D4226
Impact Resistance (Gardner)	ASTM D5420
Instrumented Impact	ASTM D3763; ISO 6603-2
QUV Testing	ASTM D4329, G154; ISO 4892-3, 9370

Test Description

Test Method or Standard

Resistance of Plastics to Chemical Reagents  
(Immersion Test)

ASTM D543 (Practice A)

Specific Gravity/Density

ASTM D792 (Method A); ISO 1183-1

Specular Gloss

ASTM D523

Tear Resistance

ASTM D624, D1004; ISO 34

Tensile Impact

ASTM D1822

Tensile Properties

ASTM D412 (Method A), D638, D882; ISO 37,  
527-1, -2, -3, -4, -5

Vicat Softening Temperature

ASTM D1525; ISO 306

Xenon-Arc Exposure Testing

ASTM D2565, G155; SAE J1885  
(Withdrawn January 2008)<sup>1</sup>,  
J1960 (Withdrawn January 2008)<sup>1</sup>, J2412, J2527

Wire and Cable

Tensile, Air Oven Accelerated Aging

UL 44 Table 11, UL 2556 Clause 4.2.3 – 4.2.6, 4.2.8.2

-40 °C Cold Impact Test

UL 44 Clause 5.11.2, UL 2556 Clause 7.7

Cold Bend

UL 44 Clause 5.11.1, UL 2556 Clause 7.6

Xenon-Arc Exposure Testing

UL 44 Clause 5.15, UL 2556 Clause 4.2.8.5.1

Oil Resistance I & II

UL 44 Clause 5.16.1/.2, UL 2556 Clause 4.2.8.3

<sup>1</sup> *This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.*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

### **POLYMER DIAGNOSTICS INC.**

*Avon Lake, OH*

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 April 2017).



Presented this 30<sup>th</sup> day of March 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 0514.01  
Valid to September 30, 2019

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