



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

**SGS North America Incorporated
(dba SGS Polymer Solutions, Inc.)
135 Technology Drive
Christiansburg, VA 24073**

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.

A handwritten signature in black ink, appearing to be 'J. Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 04 June 2026

Certificate Number: L1191-1



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

SGS North America Incorporated (dba SGS Polymer Solutions, Inc.)

135 Technology Drive
Christiansburg, VA 24073
Owen W. Hand
540-961-4300

TESTING

Valid to: **June 4, 2026**

Certificate Number: **L1191-1**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Material Identification	ASTM E 1252 6.2; 6.3; 6.4; 6.5.2; 6.5.3; 6.5.4; 7.2; 7.3; 7.4; 7.6; 7.7; 7.9; 8.1; 9 ID 880 ID 892 ID893 ID894 ID 898	Liquids, solids vapors, polymers	Fourier Transform Infrared Spectroscopy (FTIR) Transmission, ATR, Microscope
Molecular Weight Monitoring	ASTM D2857 ISO 1628-1	Plastics, polymers, resins	Dilute Solution Viscometry (IV) Capillary viscometers
Elemental Content	ASTM D1976 ID 1760 ID1775 ID 45684	Plastics, polymers, rubber, paints, pigments	Inductively Coupled Plasma (ICP) Optical emission spectrometry (OES)
Assay for Purity	USP-NF - Benzalkonium Chloride Solution NF Monograph (Assay) ID 30816	Benzalkonium Chloride	Titration Liquid Chromatography (HPLC)
Moisture Content	ASTM D6869 ID 1025	Plastics, polymers, resins, rubber	Karl Fischer Oven Method
Moisture Content	ASTM E1064 ID 6521	Liquids	Karl Fischer Coulometric Titration
Specific Gravity (Density)	ASTM D792 ID 926	Plastics, polymers, resins, rubber, paints, pigments, adhesives, sealants, coatings	Density by displacement kit,

Chemical

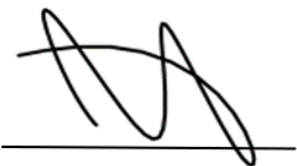
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Specific Gravity (Density)	ASTM D1505 Method C ID 1009	Plastics, polymers, resins, rubber, paints, pigments, adhesives, sealants, coatings	Density by gradient column
Screening for Leachable Organic Compounds	ID 3177	Plastics, polymers, resins	Liquid Chromatography (HPLC) with Photodiode array detector (PDA) and Evaporative Light Scattering detector (ELSD)
Screening for Leachable Organic Compounds	ID 3216	Plastics, polymers, resins	Gas Chromatography (GC) with Mass Spectrometry (MS)
Residual Lactide, Glycolide, Caprolactone Monomer	ID 1100	Plastics, polymers	Gas Chromatography (GC) with Flame ionization detector (FID)
Molecular Weight Distribution	ID 37605	Plastics, polymers, resins, paints, pigments, rubber, adhesives, sealants, coatings	Size-Exclusion Chromatography (SEC/GPC) with Multi-angle light scattering detector (MALS), Refractive index detector (RI)
Melting and Crystallization Temperatures, Enthalpy of Fusion and Crystallization, and Glass Transition Temperature	ASTM D3418 ID 917	Solids, powders, liquids	Differential Scanning Calorimeter (DSC)
Microscopic Imaging with Dimensional Morphology Surface Analysis for Elemental Composition	ID 52642	Solids	Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (SEM-EDS)
Ash (Inorganic) Content	ASTM D5630 ID 934	Solid, powder, polymers, plastics	Muffle Furnace

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Tensile and Flexural Strength, Stress, Strain, and Modulus	ASTM D638 ASTM D790 ID 941 ID 939	Plastics, polymers, coatings	Mechanical Testing System (MTS)
Izod & Charpy Impact Testing	ASTM D256 ASTM D6110 ASTM D4812 ISO 180 ID 45902	Plastics, polymers	Pendulum Impact Tester

Note:

1. This laboratory offers commercial testing service.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L1191-1.



Jason Stine, Vice President

