

10.6 Scope of Accreditation

Issue No: 04/ Issue Date: 24th July 2022
File Manager: Atta Subhan



Testing Laboratory Accreditation No. ATL 0036

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International Standard ISO/IEC 17025:2017, “General requirements for the competence of testing and calibration laboratories”

Enerplastics Advanced Laboratory, Enerplastics LLC	
<p>Address.</p> <p>Jebel Ali Industrial Area 1</p> <p>PO Box 37561, Dubai</p> <p>United Arab Emirates</p>	<p>Contact Person: Dr Haseena Navas</p> <p>Tel: +971 4880 2955</p> <p>Fax: +971 4880 2966</p> <p>Email: hnavas@enerplastics.ae</p> <p>Web Address: www.enerplastics.com</p>

Locations where testing activities covered by the above Accreditation Standard are undertaken

<p>1- address: Jebel Ali Industrial Area 1, PO Box 37561, Dubai, United Arab Emirates</p>

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For the following scope:

Scope:

7. Chemical Testing:

7.37 Plastics

13. Mechanical Testing:

13.29 Plastics and related products

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Scope details are as follows:

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Remarks
Chemical testing	Polymer /plastic product characterization	Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis/ 4000—400 cm ⁻¹	ASTM E1252-98 (2021)	
Chemical testing	Polymer /plastic product characterization	Plastics Methodology for Assessing Polymer Photo-aging by FTIR/ 4000—400 cm ⁻¹	ISO 10640:2011	
Chemical testing	Polymer /plastic product characterization	Standard Test Method for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry/-140 to 600 °C	ASTM D3418-21	
Chemical testing	Polymer /plastic product characterization	Standard Test Method for Oxidative-Induction Time of Polyolefins by Differential Scanning Calorimetry/-140 to 600 °C	ASTM D3895-19	
Chemical testing	Polymer /plastic product characterization	Standard Test Method for Identification and Quantification of Chromium, Bromine, Cadmium, Mercury, and Lead in Polymeric Material Using Energy Dispersive X-ray Spectrometry/ Na to U	ASTM F2617-15	

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Chemical testing	Weathering of polymer/plastic products	Plastics: Methods of Exposure to Laboratory Light Sources: Xenon Arc Lamps/300 to 800 nm	ISO 4892-2:2013/Amd.1:2021(E)	
Chemical testing	Weathering of polymer/plastic products	Plastics- Methods of Exposure to Laboratory Light Sources: Fluorescent UV Lamps/ UVA 0.35 to 1.23 W/m ² /nm UVB	ISO 4892-3:2016	
Chemical testing	Weathering of polymer/plastic products	Standard Practice for Fluorescent Ultraviolet (UV) Exposure of Photodegradable Plastics/ UVA 0.35 to 1.23 W/m ² /nm UVB	ASTM D5208-14	
Chemical testing	Weathering of polymer/plastic products	Plastics- Methods of Exposure to Laboratory Light Sources: Accelerated UV Ageing UVA 0.35 to 1.23 W/m ² /nm UVB	ASTM G154-16	
Chemical testing	Oxo-biodegradable testing for polyolefins products	Assessment of Oxo-biodegradability of Polyolefinic Materials in the form of Film (abiotic)/ SEPAP – 45 to 80 °C, Venticell Oven – 10 °C, above ambient to 250 °C and FTIR – 4000 to 400cm ⁻¹ (Transmission mode)	AFNOR AC T51-808-2012	
Chemical testing	Oxo-biodegradable testing for polyolefins products	Methods for the Assessment of the Oxo-Biodegradation of Plastics (abiotic)/ UV	BS 8472:2011	

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		Fluorescent Test – 0.35 to 1.55 W/m ² /nm and FTIR- 4000 to 400cm ⁻¹ (Transmission mode)		
Chemical testing	Oxo-biodegradable testing for polyolefins products	Standard and Specification for Oxo-Biodegradable of Plastics Bags and other Disposable Plastics Objects (abiotic)-Tensile, Elemental, FTIR and UV ageing)/ UV Fluorescent Test – 0.35 to 1.55 W/m ² /nm, EDXRF Na to U, FTIR – 4000 to 400cm ⁻¹ (Transmission mode) and UTM – 0 to 5kN	UAE.S 5009:2009	
Chemical testing	Oxo-biodegradable testing for polyolefins products	Standard Guide for Exposing and Testing Plastics that Degrade in the Environment by a Combination of Oxidation and Biodegradation (abiotic degradation only)/ UV Weathering, Elemental Analysis, Tensile Properties, Carbonyl Index by FTIR/ UV Fluorescent Test – 0.35 to 1.55 W/m ² /nm, FTIR – 4000 to 400cm ⁻¹ (Transmission mode) and UTM – 0 to 5kN	ASTM D6954-18	
Oxo-biodegradable testing	Oxo-biodegradable testing for polyolefins products	Degradable Plastics Products (abiotic Degradation only)/ UV Weathering, Elemental Analysis, Tensile Properties, Carbonyl Index by FTIR and Shelf Life)/ UV Fluorescent Test – 0.35 to 1.55	SASO 2879:2016	

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		W/m ² /nm, EDXRF Na to U, FTIR – 4000 to 400cm ⁻¹ (Transmission mode) and UTM – 0 to 5kN and Venticell Oven – 10 °C, above ambient to 250 °C		
Mechanical testing	Physical testing of polymer/plastic products	Standard Test Method for Tensile Properties of Plastics/ 0 to 5 kN	ASTM D638-14	
Mechanical testing	Physical testing of polymer/plastic products	Standard Test Method for Tensile Properties of Thin Plastic Sheeting/0 to 5 kN	ASTM D882-18	
Mechanical testing	Physical testing of polymer/plastic products	Determination of Tensile Properties Test Conditions for Films and Sheets/0 to 5kN	ISO 527-3:2018	
Mechanical testing	Physical testing of polymer/plastic products	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer/ 100 to 450 °C	ASTM D1238-20	
Mechanical testing	Physical testing of polymer/plastic products	Standard Test Method for Color Determination of Plastics/ 360 to 750 nm	ASTM D6290-19	
Mechanical testing	Physical testing of polymer/plastic products	Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting	ASTM D1894-14	

Note: the text in blue indicates the new scope OR update in the Edition of a test method in this issue of the scope of accreditation.

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Log of Suspended Scopes: None

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Suspended	Date Reinstated

Log of Withdrawn Scopes: None

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Withdrawn

END

Status of this accreditation can be checked in the GAC's website to confirm the validity of this accreditation - <https://www.gac.org.sa/en/>