



Saudi Standards, Metrology and Quality Organization
SASO

Technical Regulation for Degradable Plastic Products

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Note:

**Only the Arabic version of this Regulation is authentic in law and is
applicable where there are differences with this translation**

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Preamble

In line with the accession of the Kingdom of Saudi Arabia (KSA) to the World Trade Organization (WTO), as per the Decree No. 244 of the Council of Ministers, dated 21/09/1426 A.H., concerning the approval of documentation on the Kingdom's accession to the WTO, and the requirements by which the KSA shall adapt its relevant systems with the principles of WTO agreements, particularly, the Technical Barriers to Trade (TBT), which stipulates that no unnecessary technical requirements shall impede the flow of commodities among the member states, and that technical requirements and methods of conformity assessment shall not discriminate between products on the basis of origin, through the issuance of Technical Regulations that include the essential requirements and standardized business procedures.

In accordance with Article 3 (Clause-1), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that:
“SASO shall issue Saudi standards, quality systems and guidelines and conformity assessment, compatible with international standards and guidelines, that meet the requirements of the World Trade Organization (WTO) Agreement, in addition to their compliance with Islamic Sharia and serving the interests of Saudi Arabia”;

In accordance with Article 4 (Clause-2), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that:

“SASO shall issue regulations for conformity assessment procedures of commodities, products, and services according to approved standards”;

In accordance with Article 4 (Clause-14), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that:

“SASO shall review the laws and control regulations related to SASO's work fields, and develop them, and propose amendments thereto in line with quality and safety requirements, and refer them to competent bodies in order to review and issue them, in accordance with applicable procedures”;

In accordance with Article 6 (Clause-1), Statue of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that:

“Subject to Article 4 of this Statute, SASO shall be the authority in charge of

matters related to standards, conformity assessment procedures, granting the quality mark, metrology and calibration. All public and private sectors shall be adhered to the Saudi standards in all purchases”.

Whereas the standards of the products included in a regulation shall be a basis for the conformity of such products with the essential safety requirements included in the specified regulation.

Therefore, SASO has developed this Technical Regulation.

Note: This preamble and all the annexes of this regulation shall form an integral part thereof.

Article (1): Terms and Definitions

1/1 When applying the articles of this regulation, terms and expressions hereunder –shall have the meanings indicated in front thereof, unless the context otherwise requires:

KSA: The Kingdom of Saudi Arabia.

SASO: Saudi Standards, Metrology and Quality Organization.

The Board:: SASO’s Board of Directors.

Regulatory Authorities: Government body/bodies with regulatory tasks in consonance according to their specializations, which are responsible for the implementation and enforcement of technical regulations, whether in customs, markets, or manufactories.

Market Surveillance Authorities: government body/ bodies responsible for carrying out market surveys.

Technical Regulation: A document approved by The Board that provides, the specifications of products, associated processes and production methods, including applicable administrative provisions; with which compliance is mandatory. It may include or pay attention to terms, definitions, packaging, and requirements of markings or labelling products, services, processes or production methods.

Standard: A document approved by the Board that provides, for the regular and recurring use, non-mandatory rules and instructions, and specifications of products or processes and production methods. It may include, or pay attention to terms, definitions, packaging, and requirements of markings or labelling products, services, processes or production methods.

Essential Requirements: The special requirements of the products; that may affect the safety, health, and the environment; that must be adhered to.

Market Surveillance: Activities and measures carried out by the market surveillance authorities to verify that products meet the requirements stipulated in the relevant technical regulations, and to ensure that they do not pose a risk to health, safety, environment, or any other aspect related to the protection of the public interest.

Hazard(s): A potential source of harm.

Risk (s): A potential risk causing damage; associated with the severity of damage.


Supplier:

- A product manufacturer, in case that he is resident in the KSA, or the person identified as the manufacturer of the product, through linking the product to their name, or to a relevant commercial description, or any person who provides a product replacement.
- An agent, when the manufacturer is resident outside the Kingdom or an importer in the absence of an agent of the manufacturer.
- Any person in the supply chain, whose activities may affect the product characteristics.

Conformity Assessment Procedures: A document approved by the Board of Directors, which describes the procedures used directly, or indirectly for the conformity assessment.

Certificate of Conformity: A certificate issued by SASO or a notified body, which ensures the conformity of a product, or any batch thereof, with the requirements of relevant standards.

Supplier Declaration of Conformity: A declaration by the supplier by which it declares that a product conforms to the requirements herein and applicable legislations, without the mandatory intervention of a third party neither in the design stage, nor in the production stage of the manufacturing process. A declaration may depend on testing the product in accordance with the relevant legislation.

 **Saudi Quality Mark:** A mark granted by SASO, which declares that the supplier has established an effective management system, which ensures that the products

they supply are produced in accordance with the applicable regulations, granting procedures, and the relevant Saudi standards.

Products: Degradable Plastic Products via OXO degradation then biotic degradation.

Consumer: Any person who obtained the product directly or through a service and uses it for personal purposes for family members, or property.

Placing on Market: Launching a product for the first time in the Saudi market for which the manufacturer/supplier is responsible.

Making Available on the Market: Any supply of the product for distribution, consumption or use in the KSA, in the course of a commercial activity, in return for payment or free of charge.

Withdrawal: Any procedure that aims to prevent a product from being placed in the market or in a supply chain.

Recall: Any procedure that aims to recall products made available for the end-user.


Bio-Degradable Plastics: A degradable plastic that when degraded results in water, carbon dioxide and biomass as a result of the micro-organisms that occur naturally.

OXO (oxo-degradable plastics): A plastics type that degrades when exposed to certain environmental conditions, to produce smaller parts of molecular weight (fragment parts). This degradable plastics type can be classified based on its exposure time. This has to be according to the appropriate standard test method.

Logo: SASO owns the degradable plastic Logo which is installed on products according to the requirements of this regulation. This Logo indicates the product's conformity with this regulation. Annex (6) includes its specified shape.

Licensing the Usage of the Logo: A license issued by SASO, a notified body approved by SASO. The license is to use a Logo and fix it on the products that meet the requirements of this regulation, including the requirements of related Saudi standards.

Registered Laboratory: A laboratory accredited in according with ISO 17025 by a notified body in the field of degradable plastics testing. This lab is registered by SASO in order to approve the reports issued by it in the procedures of licensing a Logo usage.

 **Test Report:** A test report issued by a registered laboratory, provided that the date of issuance does not exceed one year at the time of applying for the license.

1/2 The terms and expressions specified herein shall have the meanings specified in the applicable laws, regulations, and decrees of SASO.

Article (2): Scope

This regulation applies to all products manufactured in polypropylene and polyethylene, which are often used for short periods and then disposed of as mentioned in Annex (1), in accordance with the thickness limits set out in the approved standard. This regulation makes obligatory that the products are OXO degradable then bio-degradable; in accordance with relevant definitions and terms provided in Article (1) and in accordance with relevant standards provided in Annex (2).

Plastic products used in the medical and food industries are excluded from the scope of this regulation.

Article (3): Objectives

This regulation aims to identify the environmental requirements for biodegradable plastic products covered in the scope of this regulation, in order to preserve the environment, consumer health, and animals, and to facilitate market survey procedures.

Fulfillment of the requirements of this regulation does not preclude compliance with the requirements of the technical regulations related to the safety of the product.

Article (4): Requirements of Licensing the usage of the OXO Logo

SASO shall grant the license to use the OXO Logo, when the following conditions are met:

- A) The supplier shall be officially registered at the official competent authority and have a commercial registration number.
- B) The product shall meet the requirements of all conformity assessment procedures, which proves compliance with all technical regulations regarding the safety of the product.
- C) The product, included in the scope of this regulation, shall meet its requirements, and the requirements of the specified standards in Annex (2).
- D) The manufacturer shall have an effective Environment Management System, having ISO 14001 certification fulfills this requirement.

- E) The supplier shall provide the Supplier Declaration of Conformity Declaration in accordance with the form in Annex (4).
- F) The supplier shall provide a test report from a registered laboratory in accordance with the model specified in Annex (5). The report shall meet the requirements of this regulation and the relevant standards.
- G) The supplier shall cooperate with the Regulatory and Market Surveillance Authorities by providing the technical file, test reports and any other documented information proving fulfillment of the requirements of licensing the Logo usage, upon request.
- H) The manufacturer shall only use the additives licensed by SASO, in products manufacturing. The additives, used for products in contact with food, shall be safe for food, according to the relevant standards. Documents proving this shall be provided.
- I) All information used in the Logo shall be correct and proven.
- J) Logos placed on a product shall meet the requirements of this regulation and the Saudi standards, particularly, the requirements of the date of production and lifespan of the products covered by this regulation.
- K) Usage of the Logo shall be as provided in Annex (6).

Article (5): Steps of Obtaining the License of Logo Usage

5/1 Application

A supplier shall follow the following steps to obtain a license to use the Logo:

- A) Apply to SASO with a separate application for each product intended to be licensed.
- B) Provide a copy of the valid commercial or industrial license issued by the competent authority.
- C) Fill the approved forms of the authority concerned with the product and supply this authority with any other additional documents, upon request.
- D) Attachment of the technical file including test reports proving the conformity of the product with the requirements of this regulation, issued by a registered laboratory. A copy of the laboratory valid accreditation certificate shall be attached. Test reports shall include the following:
 - 1) Abiotic Degradation Test Report.
 - 2) A test report with the results of chemical analysis of residual material and the non-degradable fraction.
 - 3) A test report of final aero-biodegradation.
- E) Attach conformity assessment documents, which prove that the product meets the safety requirements of the relevant Saudi technical regulation.

- F) Provide statistical data of the pervious year, in kilograms, for the amounts of local plastic products from the two types: Degradable and non-degradable. SASO shall maintain the confidentiality of this information.
- G) The supplier – when applying for a license - shall provide SASO with any information related to the product specified in the application, and shall facilitate the task of obtaining a representative sample of the product, when needed, to verify its compliance with the requirements of this regulation, at the expense of the supplier.
- H) The supplier shall declare that all information provided to SASO are valid and under the responsibility of the supplier.
- I) The supplier shall pay SASO for the costs of licensing the Logo usage.

5/2 Licensing the Product

SASO shall perform the following procedures to license the Logo usage:

- A) SASO shall examine the documents according to the licensing procedure approved for each product in order to verify that all the requirements are met.
- B) SASO shall verify the extent to which the product meets the requirements of this regulation, in accordance with the conformity assessment form (Type 1a) “Type Approval” set out in Annex (3).
- C) SASO shall license the Logo usage after the fulfillment of all the requirements set forth in this regulation.
- D) The supplier shall be informed in writing if the application is rejected, with an explanation of the reasons.
- E) SASO shall issue the license when the supplier meets all requirements and fulfills all required corrections within the period specified in the procedures of licensing the Logo.
- F) The competent regulatory authorities has the right to withdraw samples from random consignments of imported or locally manufactured products, when necessary, and test them in a registered laboratory, provided that the supplier bears the costs of sampling, testing and associated fees.
- G) Validity period of Logo usage License for the product shall be one year, renewable; provided that the supplier submits a renewal application at least one month prior to the date of expiration.

5/3 Terms of Fixing a Logo

- A) The Logo shall only be fixed on licensed products in a clear position at the lower part. In case of bags, Logo shall be fixed on both sides of the bag and shall be irremovable, in such a way that it occupies 10 - 15 % of total space of each side. In

case of little-sized products that are hard to print on, Logo shall be fixed on the package, after the approval by SASO.

- B) A supplier shall be allowed to announce the license of Logo usage in his commercial transactions to prove that the products are licensed and subject to follow-up by SASO.
- C) License or Logo shall be used only for the licensed products. A supplier shall be prohibited from using the license or Logo misleadingly or incorrectly in any other way deemed misleading by SASO or the Regulatory Authorities.
- D) Verify that the packaging materials of products bear the Logo.

Article (6): Metrological Requirements

International System of Units (SI Units), its multiplies, or its parts shall be applied.

Article (7): Labeling

- A) Labels of degradable plastics, prepared to be placed and displayed in the market, shall be written in Arabic or in both Arabic and English, in a clear and irremovable manner.
- B) Labels on product packages shall conform to the technical requirements identified in this regulation and in the relevant standards.
- C) Each piece shall contain – in an eligible and non-erasable manner- the following information in Arabic or in both Arabic and English:
 - 1) The name of the manufacturer, trademark or any of them.
 - 2) Country of origin and whether the product was manufactured under a license from a registered trademark / the manufacturing company.
 - 3) Production date; day, month, year, and barcode.
 - 4) Purpose of use and type of application.
 - 5) Shelf life and storage conditions.
 - 6) Logo, which indicates that the product is degradable, on each piece of the product.
- D) The Logo shall only be fixed on the licensed products in accordance with Clause (3/5) of Article (5).
- E) All information used in the labels shall be valid and proven.
- F) Images or expressions used on product packages shall not violate the public law, morals and the Islamic values prevailing in the KSA.

Article (8): Responsibilities of Regulatory Authorities (Customs ports-Manufactories)

Regulatory Authorities, as a part of their competences, shall carry out the following:

- A) Verify the procedures of fixing the Logo to products subject to this regulation and verify the Logo data.
- B) Randomly, sample the products subject to this regulation and refer such samples to the competent laboratories to ascertain the extent of the conformity of such sample with the requirements set out in this Technical Regulation.
- C) Regulatory Authorities have the right to charge the suppliers (manufacturers/importers) with the costs of tests and associated fees.
- D) Withdraw the non-conforming products from warehouses and take legal actions, in case of finding that the procedures of fixing the Logo were incorrect.
- E) The Regulatory Authorities shall verify that the products - subject to this regulation - are licensed and logoed by SASO.

Article (9): Responsibilities of Market Surveillance Authorities

Market Surveillance Authorities, as a part of their competences, shall carry out the following:

- A. Enforce the market surveillance procedures to the products in markets and the products stored in warehouses, in order to verify the correctness of Logo fixing procedures on products subject to this regulation and the correctness of data.
- B. Sample the product, whether from the market or warehouses of suppliers (manufacturers and importers), in order to conduct the necessary tests and to verify the conformity of such products with the requirements set out in this regulation. The supplier shall bear all associated costs of sampling, shipping and testing, to guarantee the persistent of conformity with the related standard and this regulation.
- C. In case of non-conformity of – displayed or stored – products with the requirements of this Technical Regulation, Market Surveillance Authorities shall take all administrative actions including withdrawal and recall of such products. Procedures and penalties – stipulated in Article (10) – shall be applied after taking the necessary actions.

Article (10): Violations and Penalties

- A) It is prohibited to manufacture, import, launch, or even advertise the products non-conforming with the requirements of the articles stipulated in this Technical Regulation.
- B) Failure to meet the requirements of this Regulation shall be a sufficient reason for Market Surveillance Authorities and Regulatory Authorities to consider the product as non-conforming, which may pose a risk to the health and safety of consumers and to the environment, including, but not limited to:
- 1) Non-fixing or improper fixing of the Logo.
 - 2) Lack, unavailability, or incompleteness of the technical documentation.
 - 3) Lack, unavailability, or incompleteness of product data/labels or usage guidelines.
- C) In case of a violation of the provisions hereof, Market Surveillance Authorities shall take all necessary actions to eliminate such violations, and their effects from the market. To this end, Market Surveillance Authorities may:
- 1) Mandate the violating party – that is responsible for placing and offering of the product – to withdraw the product from the warehouses or markets in order to remedy such violations, if possible. The product may be exported or destroyed (according to the nature of the product) within the period specified by the Market Surveillance Authorities.
 - 2) Withdraw, restrain or destroy the products, or take any other necessary action to recall such products from the markets. In addition, as the case may be, Market surveillance Authorities may announce the withdrawal of the product from the markets, and the violating party shall bear all associated expenses.
- D) In case of non-conformity of the products, SASO shall take the necessary actions concerning products non-conforming with the requirements of this Regulation, including the cancellation of the license to use the Logo.
- E) Without prejudice to any other law, a party that violates any of the provisions hereof shall be subject to the penalties stipulated in applicable Anti-Commercial Fraud Law or any other superseding law.

Article (11): Financial Costs

(All costs shall be in Saudi Riyals (SR))

S.	Clause	Costs
1	Application Costs	500
2	Elementary Technical Documentation Study Costs	2500/ business day
3	Costs of Licensing Logo Usage	600 /each product

Article (12) General Provisions

- 1) Supplier shall bear full legal responsibility for the implementation of the requirements of this Technical Regulation, and shall be subject to the penalties stipulated in the Anti-Commercial Fraud laws and/or any other related laws, in case any violation of the articles thereof is proven.
- 2) This Technical Regulation shall not impede the supplier to comply with all other systems/regulations applicable in the Kingdom of Saudi Arabia; pertaining to trading, transporting, or storing the product, in addition to the rules/regulations related to the environment, security, and safety.
- 3) Suppliers of the products subject to the provisions of this Technical Regulation shall provide the inspectors of the Regulatory and Market Surveillance Authorities with all necessary information, when required, to carry out their assigned tasks.
- 4) Where new originated cases that cannot be treated under the provisions of this Technical Regulation, or where a dispute arises as a result of the application of those provisions, such matter shall be referred to the competent committee in SASO, in order to issue a proper resolution regarding the case or dispute, while taking the public interest into consideration.
- 5) The supplier may submit a new request after elimination of the reasons of rejection for the conformity assessment procedures request, and after the necessary corrections have been made. The supplier shall be responsible for any additional expenses determined by SASO.
- 6) SASO shall examine the complaints received regarding the products having a Certificate of Conformity or a Quality Mark, if any, and verify the validity of such complaints, and take the necessary legal actions in case of any violations.
- 7) SASO have the right to annul the Certificate of Conformity or the Quality Mark license, if any, if the supplier violates the provisions herein, and shall take the legal actions to ensure the preservation of the rights of SASO.
- 8) If any modifications were made to the product during the validity period of the Certificate of Conformity or the Quality Mark license, if any, (except for

morphological modifications), the certificate, license, or the Supplier Declaration of Conformity for this product shall be annulled, and a new request shall be submitted

- 9) SASO shall, exclusively, have the right to construe the articles herein. All beneficiaries of the application of this Technical Regulation shall adhere to the interpretations issued by SASO.

Article (13) Transitional Provisions

- 1) The supplier shall take corrective actions in accordance with the provisions of this Technical Regulation within a period of no more than one year as of the date of publication.
- 2) Subject to the provisions of item (1) of this Article, products, not complying with the provisions specified in this Technical Regulation may be traded for a maximum of one year as of the date of enforcement.
- 3) This Technical Regulation, once adopted, shall supersede all the preceding regulations in the field of degradable plastic products.

Article (14) Publication



This Technical Regulation shall be published in the Official Gazette.

Annex No. (1)**A List of Polyethylene and Polypropylene Products Subject to this Regulation**

No.	Product	HS Code
1	Carrier Bags	39211300
2	Courier and Security bags	39211300
3	Mail Bags (Magazine and Newspaper Bags)	39211300
4	Soil remediation, agricultural/horticultural applications (e.g. banana bags, mulch film,)	39269069
5	Bubble Wrap and Cushioning Packaging	39211200 39211100 39202000 39219000
6	Flower wraps	39211200 39211100 39202000 39219000
7	Overwraps	39211200 39211100 39202000 39219000
8	Stretch Film Roll	39211300
9	Cling Film Roll	39211300
10	Plastic Liners for Cartons	63063000
11	Polyethylene Sheets on Rolls such as table covers	39211900 39232100

12	Personal Care products such as gloves, shoe covers, aprons and any disposable personal care products	39262090
		39269099
		63079040
13	Bags for packaging Bread, nuts, sweets and all bakery items	39232100
14	Plastic bags for seedlings	39232100
15	Shrink Film Rolls	39232100
16	All disposable plastic bags 'one-time use', including shopping bags, garbage bags, clothes bags, and disposable dining items such as plates, spoons and cups.	39151000
		39173210
		39241090
		39232100
		39241039

Annex No. (2)**List of Standards**

	Standard	Title
1	SASO 2879	Degradable Plastic Products
2	SASO ISO 14851:2009	Determination of Ultimate Aerobic Biodegradability of Plastic Materials in an Aqueous Medium - Method of Measuring the Oxygen Demand in a Closed Respirometer
3	SASO ISO 14852:2009	Determination of Ultimate Aerobic Biodegradability of Plastic Materials in an Aqueous Medium - Analysis of Evolved Carbon Dioxide Method
4	SASO ISO 14855-1:2014	Determination of Ultimate Aerobic Biodegradability of Plastic Materials under Controlled Composting Conditions - Analysis of Evolved Carbon Dioxide Method - Part 1: General Method
5	SASO ISO 14855-2:2014	Determination of the Aerobic Biodegradability Peak of Plastic Materials under Conditions of Fertilizers Degradation - Analysis of Evolved Carbon Dioxide Method - Part 2: Gravimetry of Carbon Dioxide in a Laboratory - Scale Test
6	SASO ISO 17556:2014	Plastics - Determination of the Ultimate Aerobic Biodegradability in Soil by Measuring Oxygen Demand in a Respirometer or Measuring the Amount of Emitted Carbon Dioxide
7	ASTM D 6954	Standard Guide for Detection of Degradable Plastics in Environment and Testing it through a Combination of Oxidation and Biodegradation
8	CEN/TR 15351	Plastics - Vocabulary of Degradable Plastic Materials
9	SASO/ISO 472/2006	Plastics - vocabulary
10	SASO GSO 1863	Food Packages - Part 2 Plastic Packages – General Requirements
11	SASO ASTM D6988	Standard Guide for Determining the Thickness of Test Specimens of Plastic Films
12	SASO ASTM D5208-14	Standard Practice for Fluorescent Ultraviolet (UV) Exposure of Photodegradable Plastics
13	SASO ASTM D3826-98 :2013	Standard Practice for Determining the Degradation End Point in the Degradation of Polyethylene and Polypropylene Using a Tensile Test
14	SASO ASTM D4001	Standard Test Method for Determination of Weight-Average Molecular Weight of Polymers
15	SASO ASTM D2765-11	Standard Test Methods for Determination of Gel Content and Swell Ratio of Cross-linked Ethylene Plastics
16	SASO ASTM D5988-12	Standard Method for Determining Aerobic Biodegradation of Plastic Materials in Soil
17	SASO ISO 17556:2012	Plastics - Determination of the Ultimate Aerobic Biodegradation of Plastic Materials in Soil by Measuring Oxygen Demand in Measuring Respiration or the Amount of Emitted Carbon Dioxide

Annex No. (3)**Conformity Assessment Form (Type 1a) as per ISO/IEC 17067****Type Approval****1 Type Approval**

Type approval is defined as one of the conformity assessment procedures, under which a notified body reviews and verifies the technical design of the product and declares that the technical design meets the requirements of the relevant Saudi Technical Regulations.

Type approval may be conducted by one of the two following methods:

- A) Examination of a representative sample of the entire product, that represent the expected production (production model).
- B) Assessment of the conformity of the technical design of the product by auditing the relevant technical documentation and manuals (design model), and examining of a representative sample of the expected production for one part or more involving hazardous parts of the product (a combination of the production model and the design model).

2 Procedures of Type Approval**2/1 Submission of a Type Approval Request to a Notified Body**

The manufacturer shall submit a request for type approval to a notified body selected by the manufacturer, such request shall include:

- A) Name and address of the manufacturer;
- B) A written declaration not to submit the same request to any other Notified Body.
- C) Technical documentation facilitating the assessment of the conformity of the product to the requirements of Saudi technical regulations. Such documentation shall include adequate analysis and evaluation of risks.
- D) Technical documentation shall identify the requirements that apply to the product. Including, as required by the assessment, the design of the product, manufacturing and operation (use) of the product.
- E) Technical documentation shall include – at least - the following:
 - 1) A general description of the product.
 - 2) Design and manufacturing drawings, horizontal projections (diagrams), components, units, subdivisions, etc.

- 3) Description and explanations, referred to therein, necessary to understand the drawings, diagrams, and the operation (use) of the product.
- 4) A list of the Saudi standards or any other relevant technical specifications adopted by SASO, whether fully or partially applied, and a description of the adopted solutions to meet the essential requirements of the Saudi technical regulations in case of non-application of the aforementioned standards. In case of partial application of Saudi standards, the technical documentation shall clarify the applied clauses.
- 5) Report results (graph calculations) of the design, operation control, conducted tests, etc.
- 6) Test reports.
- 7) Representative samples of the planned production. The notified body may request additional samples, if necessary.
- 8) Evidences (proofs) supporting the appropriateness of the technical solutions applied in the design. Such evidence shall refer to all documents, particularly in case of non-application of the Saudi standards and/or the aforementioned appropriate technical specification. Supporting evidences – as applicable - shall include results of test conducted in the suitable laboratory in the manufacturer or any other laboratory under the responsibility of manufacturer.

2/2 Tasks of the Notified Body

2/2/1 With regard to the product, the notified body shall:

Study the technical documentation and supporting evidence for the purpose of assessment of the technical design of the product.

2/2/2 With regard to the samples, the notified body shall:


- 1) Ensure that the manufacturing of samples is conformant to the technical documentation, in addition to identifying the elements designed in accordance with the Saudi standards, and the elements designed in accordance with other standards.
- 2) Carry out appropriate examinations and tests, or outsource them in order to verify that the technical solutions adopted by the manufacturer meet the essential requirements specified in the standards, in case of non-application of the relevant standards.
- 3) Carry out appropriate tests or outsource them, in order to verify that – in case of non-application of Saudi standards and/or other appropriate

standards - the technical solutions adopted by the manufacturer meet the essential requirements of the Saudi technical regulations.

- 4) Be in agreement with the manufacturer on the venue where tests shall be conducted.

2/2/3 As for decisions made by the Notified Body:

- 1) The notified body shall issue an assessment report of the procedures carried out and their outputs. The notified body shall not publish, fully or partially, the report without the approval of the manufacturer.
- 2) In case the type meets the requirements of the Saudi technical regulations relevant to the concerned product, the Notified Body shall issue a Type Approval Certificate for the manufacturer. Such certificate shall include the name and address of the manufacturer, test results, the validity conditions thereof, if any, and all information required for identification of the certified type. The certificate may also include attachments.
- 3) The certificate, along with its attachments, shall include all necessary information required to assess the conformity of manufactured products, according to the tested type and for monitoring during operation.
- 4) In case the type is non-conforming to the requirements of the Saudi Technical Regulations applicable to the product, the Notified Body shall not issue the Type Approval Certificate and shall notify the applicant of its decision, stating detailed justifications for such decision.
- 5) The Notified Body shall follow all recognized technological developments. Whenever such developments indicate that the possibility that the certified type may no longer comply with the requirements of the Saudi Technical Regulations, the Notified Body shall determine to what extent further tests are required, and it shall inform the manufacturer accordingly.
- 6) The manufacturer shall inform the Notified Body, holding the technical documentation related to the Type Approval Certificate, of all modifications of the certified type, which may affect the conformity of the product to the requirements of the Saudi Technical Regulations, or to the terms of validity of the Type Approval Certificate. As such modifications require additional approval other than the primary Type Approval Certificate.
- 7) Notified bodies shall inform SASO of the Type Approval Certificates and any additions issued or withdrawn, and shall periodically, or upon request, provide a list of the Type Approval Certificates and any additions that has been rejected, suspended, or restricted in any way.

- 8) Each Notified Body shall inform the other accredited Notified Bodies of the Type Approval Certificates and any additions that has been rejected, suspended, or restricted in any way. In addition, they shall be informed, upon request, about Type Approval Certificates or any additions released.
 - 9) Upon request, SASO and other Notified Bodies can obtain copies of the Type Approval Certificates and/or additions thereto. SASO may obtain copies of technical documentation and testing results carried out by the Notified Body, upon request. The Notified Body shall keep a copy of the Type Approval Certificate, its annexes and additions, in addition to the technical documentation (including documents attached by the manufacturer) up until the certificate's expiration date.
 - 10) The manufacturer shall keep a copy of the Type Approval Certificate, its annexes and additions thereto, in addition to the technical documentation. Furthermore, the manufacturer shall make all documents available to Regulatory Authorities and Market Surveillance Authorities for ten (10) years after placement of the product in the market.
 - 11) The supplier may submit the request mentioned in Clause (1/1/2), and carry out the aforementioned tasks on behalf of the manufacturer, on the condition of the manufacturer's consent.
- 

Annex No. (4)**Supplier Declaration of Conformity Form**

This form is to be filled on the company official papers

1) Supplier Information

Name: _____

Address: _____

Contact Person: _____

E-Mail Address: _____

Phone: _____

Fax: _____

2) Product details

Product trademark: _____

Type: _____

Product description: _____

Reference standard specifications / Technical Specifications: _____

We acknowledge that the aforementioned product in this statement is conformant to Saudi technical regulation no () and the Saudi standards attached thereto.

Person in Charge: _____

Company Name: _____

Signature: _____

Date: _____

Annex No. (5)**Test Reporting**

The report shall identify the following:

- 1) Product use and purpose of application in a clear statement.
- 2) Product specifications (characteristics) including its thickness.
- 3) Polymer type.
- 4) The required storage conditions that maintains the properties of plastics and that prevent pre-mature biodegradation, in addition to clearly stating the shelf-life.
- 5) There shall be information on shipment tracking, terms of shipment and transportation, and the required level of humidity and temperature.
- 6) Stating the anticipated storage and operation periods.
- 7) Recording the conditions of exposure concerning temperature, timing, moisture and oxygen.
- 8) Recording the conditions of and time of exposure to radiation ($\text{kJ/m}^2 \cdot \text{nm}$ at 340 nm), if used.
- 9) Reporting each of the molecular weight, tensile elongation and percentage of gel materials in samples before and after the indicated time for abiotic test exposure.
- 10) The mass before and after the test shall be reported.
- 11) The extent of biodegradation, expressed in a percentage of theoretical carbon dioxide, shall be reported.
- 12) The percentage of gel or other non-degradable components shall be assigned.
- 13) Volatile materials produced by the oxidation process (carbon dioxide) shall be specified.
- 14) Declaration of mineral concentrations in accordance with SASO 2879 – Clause 5/1/4.
- 15) Stating the type, amount and source of recycled materials used in the final product, if any.

Note: Additives may have a very significant impact on the performance of the Oxo-biodegradable additions system. Stabilizers, such as antioxidants or UV absorbers in the substrate film, may slow down the degradation response while certain types of pigments/dyes may accelerate degradation.

Test Report Form

Report on materials test according to KSA standard			
Date of report:		Date of reporting issuance	
Name of the manufacturer and / or the trademark		Test laboratory	
Sample submitting entity 1- Target application 2- Plastic type 3- Production date 4- The shelf life period		No. of testing report pages	
Sample masses (mg)			
Sample sizes (mm)			
Tested	Abiotic degradation test		
Test used	Results	Reference standard	
Exposure cycle A) and total exposure time Lamp UV used, humidity/ Temperature			
1- M.wt			
2- Tensile strength			
3- Gel content			
2- Elongation and strength			
3- Gel content			
Biotic test	Biotic test report attached		
Plant – toxicity	Plant - toxicity test, report attached according to 5/6 of SASO 2879		
metals concentration	metals test report attached according to 5/1/4 of SASO 2879		
Product fit to its standard	The test report attached as per each product standard reporting requirements		

Annex No. (6)

Logo Design



لون البلاستيك = أسود
عدد ألوان الطباعة = لون واحد



لون البلاستيك = أبيض
عدد ألوان الطباعة = لون واحد



لون البلاستيك = أخضر
عدد ألوان الطباعة = لون واحد