SCOOP

THE LATEST TRENDS, SERVICES & PROMOTIONS

SGS BIODEGRADABLE SERVICES: OUR APPROACH TO SUSTAINABILITY

Biodegradable plastics are plastics that can be decomposed by the action of living organisms, usually microbes, into water, carbon dioxide, and biomass. Biodegradable plastic can be used in consumer electronics, packaging, textile and etc.

In Europe, the European Committee for Normalisation (CEN) had published EN 13432 for determining whether a material can be considered "compostable". In USA, the ASTM D6400 standard was published for those who want to label their products as "compostable in municipal and industrial composting facilities". Moreover, countries around the world, such as Australia, Japan, Rwanda, Kenya, etc., are also establishing their own corresponding requirements.

Please contact our Customer Service Team for more information!

In January 2020, China's National Development and Reform Commission and the Ministry of Ecology and Environment issued the "Opinions on Further Strengthening the Treatment of Plastic Pollution", had established a timetable for the prohibition and limit the use of traditional plastics, and required the introduction of a provincial implementation plan by August 2020. By the end of the year, some regions and areas will be the first to ban and restrict the production, sale and use of non-degradable plastic products, which will have a dramatic effect on the plastic industry.

To cope with this trend, **SGS** offers various services to determine the compliance of biodegradable plastics in accordance to different markets.

TYPE OF DEGRADABLE PLASTIC	REQUIREMENT GB/T 20197	TEST STANDARDS	
		China	International
Biodegradable Plastic	Biodegradation rate ≥60%	GB/T 19277	EN 13432 ASTM D6400 ISO 17088
Compostable Plastic	Biodegradability ≥60% Disintegration ≥90%	GB/T 19277, GB/T 19811 and CJ/T 3059	ISO 14855-1 ASTM D5338
Xeon Arc - Photodegradable Plastic	Retention ratio of tensile elongation at break ≤5% Declining ratio of molecular weight ≥70% Over 10% Molecules with molecular weight less than 10000 after photodegradation	GB/T 16422.2 GB/T 1040 GPC	ISO 4892-2 ISO 527 GPC
Heat- and/or Oxide-Degradable Plastic	Retention ratio of tensile elongation at break ≤5% Declining ratio of molecular weight ≥70% Over 20% Molecules with molecular weight less than 10000 after pyrolysis	GB/T 7141 GB/T 1040 GPC	ASTM D5510 ISO 572 GPC

FOR ENQUIRIES

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