Anaerobic Biodegradability

Due to the modern emphasis on fast fashion, many pretty and beautiful clothes are introduced in a dazzling array, but consumers have worn clothes that a large amount of them also enter landfills. These clothes cannot be biodegraded and bring a burden to the environment. Therefore, we need to change our lifestyles to protect the environment, especially to address the large amounts of textile waste, thus also leading to the advent of biodegradable textiles. The anaerobic biodegradation test in a simulated landfill provides a solution that proves product sustainability.

Organic waste can be converted into energy and fertilizer through anaerobic biodegradation, not only reduces the amount of waste but also provides economic benefits to our communities. Anaerobic biodegradation systems can also help us purify sewage and reduce greenhouse gas emissions.
How to prove that your products meet the requirements of anaerobic biodegradable materials specifications? Please contact SGS to demonstrate the value of your products.

▶ Anaerobic biodegradability (ASTM D5511)

Test Item (Alternative)	Temperature	Objective	TAT
Thermophilic	52℃	The sample is biodegraded into methane and carbon dioxide in an anaerobic digester environment to determine the degree of biodegradation.	30 days + Extend 15 days afterward (depends on clients)
Mesophilic	37℃	Simulate the environment of the test sample in a landfill and measure the degree of biodegrade into methane and carbon dioxide	30 days + Extend 15 days afterward (depends on clients)

How do I prove that my product meets the specifications for anaerobic biodegradable materials?
Contact SGS today to demonstrate the value of your product.

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