



BIODEGRADATION AND COMPOSTABILITY TESTING

Scion has designed and built a test facility for measuring the aerobic biodegradation of a range of biomaterials like bioplastics, paper and wood.

TESTING FACILITY

Biodegradation is defined as the microbial breakdown of organic substances through biological action to CO₂, water, biomass and mineral salts.

Composting is the aerobic and thermophilic degradation of organic matter to make compost.

Scion's test facility is designed to quantify the biodegradation timeframe of biomaterials, and has been constructed in line with the international standard ISO 14855-1.

The facility is used to tailor the composting of newly developed biomaterials, and has capacity to test up to 17 different samples (in triplicate) under controlled temperature, moisture and air-flow conditions, modelled on industrial composting. The aerobic biodegradability of plastic materials is quantified by measuring evolved carbon dioxide for up to six months.

In addition to testing bioplastic formulations, the facility can be modified to examine the degradation of plastic, paper or wood in media such as soil or aquatic environments.

www.scionresearch.com

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Scion's biodegradation and compostability testing facility is available commercially, with clients from packaging, plastics and export industries.

CONTACT

Dr Florian Graichen
Email: florian.graichen@scionresearch.com
Phone: +64 7 343 5899