

Ultimate Biodegradability Test - Anaerobic Biodegradability

# **ASTM D5511**

Environment: High-solids, Anaerobic Conditions Measurement Parameter: Biogas Production



### **Test Description**

ASTM D5511 is an ultimate, anaerobic biodegradability test.

This method may resemble some conditions in biologically active landfills where gas is generated and recovered and biogas production is actively promoted by inoculation, moisture control, and temperature control.

#### **Test Recommendations**

Solubility	Can be soluble or insoluble
Adsorption	Can be adsorbing
Volatility	Can be non-volatile
Inhibitory	No microorganism inhibition

# **Equivalent & Similar Tests**

ISO 15985

## **Test Application**

This test is common for plastics and other types of materials.

Results can be shown by displaying the test name, the test duration, and the test item's degradation percentage at the final time point.

#### **Test Specifications**

Reference Material	Analytical-grade cellulose
Duration	15-30 days, or until no net gas production for at least 5 days from the positive control and test substance reactors
Temperature	37C (mesophilic) or 52C (thermophilic)
pН	7.5 to 8.5
Inoculum	Activated sludge from wastewater treatment plant
Required Info	Organic Carbon Content (C%)
Measurement Parameter	Biogas production

