

Frequently Used ASTM Plastics Standards which address environmental degradation

Specifications

- D6400 Standard Specification for Compostable Plastics
- D6868 Standard Specification for Biodegradable Plastics Used as Coatings on Paper and Other Compostable Substrates

Practices

- D3826 Standard Practice for Determining Degradation End Point in Degradable Polyethylene and Polypropylene Using a Tensile Test
- D5071 Standard Practice for Exposure of Photodegradable Plastics in a Xenon Arc Apparatus
- D5208 Standard Practice for Fluorescent Ultraviolet (UV) Exposure of Photodegradable Plastics
- D5272 Standard Practice for Outdoor Exposure Testing of Photodegradable Plastics
- D5510 Standard Practice for Heat Aging of Oxidatively Degradable Plastics
- G160 Standard Practice for Evaluating Microbial Susceptibility of Nonmetallic Materials by Laboratory Soil Burial
- D1435 Standard Practice for Outdoor Weathering of Plastics
- D4364 Standard Practice for Performing Outdoor Accelerated Weathering Tests of Plastics Using Concentrated Sunlight

Test Methods

- D5247 Standard Test Method for Determining the Aerobic Biodegradability of Degradable Plastics by Specific Microorganisms
- D5209 Standard Test Method for Determining the Aerobic Biodegradation of Plastic Materials in the Presence of Municipal Sewage Sludge
- D5338 Standard Test Method for Determining Aerobic Biodegradation of Plastic Materials Under Controlled Composting Conditions
- D5511 Standard Test Method for Determining Anaerobic Biodegradation of Plastic Materials Under High-Solids Anaerobic-Digestion Conditions
- D1238 Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer
- D5988 Standard Test Method for Determining Aerobic Biodegradation in Soil of Plastic Materials or Residual Plastic Materials After Composting
- D5338 Standard Test Method for Determining Aerobic Biodegradation of Plastic Materials Under Controlled Composting Conditions

Guides

- D6002 Standard Guide for Assessing the Compostability of Environmentally Degradable Plastics
- D6954 Standard Guide for Exposing and Testing Plastics that Degrade in the Environment by a Combination of Oxidation and Biodegradation