

Test Center of Antimicrobial Materials

Technical Institute of Physics and Chemistry, Chinese Academy of Sciences

Test Report

Report Number: LHJJ-1807-01-1/1

Sample Name * PLA Bottle

Sample Clients * VANJOIN Group

Test Sort Application Test

Date of Report Jul 19, 2018

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|---------------------------------|---------------|--------------|
| Report Number: LHJJ-1807-01-1/1 | | Page 1 of 1 |
| Sample Name * | PLA Bottle | Test Sort |
| Sample Number | J180301 | Client * |
| Sample Amount | 200g | |
| Brand * | / | Address * |
| Type * | / | |
| Batch No. * | / | Receive date |
| Manufactory * | VANJOIN Group | Test Period |
| | | Test Item |

Sample specification: Test samples are PLA bottle particle with total organic carbon (TOC): 49.83%. Reference samples are thin layer of cellulose, class of chromatograph, white powder, particle size <20μm, TOC 43.90%.

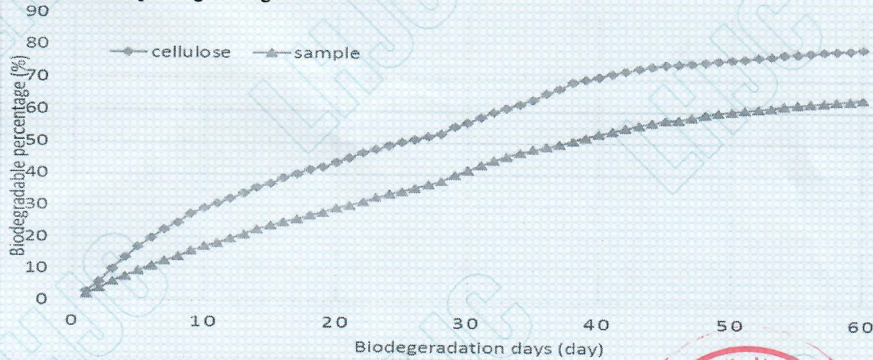
Other Specification: Using vermiculite method, and after the microbial strains were activated, inoculated it into vermiculite and activated 96h, and then started composting. Composting test started on Apr 23, 2018.

Test Standard: GB/T 19277-2003 "Determination of the ultimate aerobic biodegradability and disintegration of plastic materials under controlled composting conditions – Method by analysis of evolved carbon dioxide"

Test results:

| Biodegradation days (day) | Biodegradable percentage (%) | |
|---------------------------|------------------------------|--------|
| | Reference (cellulose) | Sample |
| 60 | 79.8 | 64.2 |

Attached: composting biodegradation curve



-End-

Written 袁捷
 Checked 郑华仁

