

सिपेट : पेट्रोकेमिकल्स तकनीकी
संस्थान (आईपीटी)

(पूर्व में सेंट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी)
रसायन एवं पेट्रोसमायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
गिण्टी, चेन्नै - 600 032.
फोन : 91-44-2225 4701 (6 लाइन)
फैक्स : 91-44-22254707
ई-मेल : chennai@cipet.gov.in
वेबसाइट : www.cipet.gov.in



CIPET सिपेट
petro - surface - practice - Plastics



CIPET : INSTITUTE OF PETROCHEMICALS
TECHNOLOGY (IPT)

(Formerly Central Institute of Plastics Engineering & Technology)
Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
Guindy, Chennai - 600 032.
Phone : 91-44-2225 4701 (6 Lines)
Fax : 91 - 44 - 22254707
E-mail : chennai@cipet.gov.in
Website : www.cipet.gov.in

CIPET/CHN-IR/HTI/TR.No.64058

Date: 24.03.2021

Name & Address of the Party

M/s. HI-TECH INTERNATIONAL,
Near Airport, Sahnewal, Ludhiana 141010.

Sample details (as declared by the party)

Dr Bio Compostable Polymer & Film

Date of initiation of aerobic biodegradation

06.11.2020

Date of completion

18.03.2021

Sl. No.	Property	Test method / Standard	Unit	Results obtained	Specified Requirements
1.	Material Identification	FTIR / DSC	--	Blend of Poly Lactic Acid (PLA) and Poly Butylene Adipate Co-Terephthalate (PBAT) with Starch	--
2.	Disintegration (Dry mass remains in 2mm sieve after 84 days)	Cl. 6.2 of ISO 17088-2012 / IS 17088 - 2012	%	8.2	Not more than 10%
3.	Ultimate Aerobic Biodegradation (with reference to 100% degradation of positive reference)	Cl. 6.3 of ISO 17088-2012 / IS 17088 - 2012	%	90.04 (At the end of 133 days)	> 90% (At the end of the test period not more than 180 days)

Comments: The submitted sample of Dr Bio Compostable Polymer & Film (as stated by party) complies to the requirements of cl. 6.2 & 6.3 of ISO 17088-2012 / IS 17088-2012.

Note:

- The submitted sample is exposed under controlled compost condition as per ISO 14855-1 and at the end of 133 days, the cumulative biodegradation is estimated as 90.04% with reference to the degradation of the cellulose.
- The following tests are under progress as per the standard ISO 17088-2012 / IS 17088 - 2012.
 - Heavy metal analysis as per Cl. no. 6.4.1.
 - Seed germination as per Cl. no. 6.4.4.
- The Test Report will be issued after the completion of all the tests.
- The interim report is only valid till the issue of Test report.

Authorized Signatory

Authorized Signatory

मुख्यालय : सिपेट, गिण्टी, चेन्नै - 600 032. Head Office : CIPET, Guindy, Chennai - 600 032.

केंद्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बही, बालासोर, बैंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नई, देहरादून, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्ची, कोरबा, लखनऊ, मद्रुरै, मुरधल, मैसूरु, रायपुर, राँची, वलसाड, वाराणसी एवं विजयवाडा
Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Gurugram, Guwahati, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Marthal, Mysuru, Raipur, Ranchi, Valsad, Varanasi & Vijayawada