



জীবনের জন্য বিজ্ঞান
বাংলাদেশ বিজ্ঞান ও শিল্প গবেষণা পরিষদ (বিসিএসআইআর)
BANGLADESH COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (BCSIR)

Laboratories/ Institute/ Center: BCSIR Laboratories, Dhaka

ANALYSIS REPORT

ASC Ref No	: D-1053, dt: 21.11.2024	Unit (Lab/Ins.) Ref No	: 1053
Lab Sample ID	: FPRD/A-2999	Number of Sample	: 1 (One)
Sample Description	: Test for Supplied Sample (Polka Bio-plastic).	Test Commencement Date	: 21/11/2024
Client's Details	: Mahabub Sumon Shalbrikko Limited Kaiumpur, Narayangonj.	Test Completion Date	: 10/12/2024
Ref. No.	: Nil	Date: 30/10/2024	

Details-

Sl. No	Parameter	Method	Unit	Results
01.	Physical State	In-house	Apparent	Fibre reinforced composite
02.	Burning feature / properties	In-house	-	Burning like cellulose fibre
03.	Test for polystyrene (PS)	In-house	Presence	Absent
04.	Test for polyethylene (PE)	In-house	Presence	Absent
05.	Test for propylene (PP)	In-house	Presence	Absent
06.	Test for cellulose / starch	In-house	Presence	Present
07.	Content of Composite / Carbohydrate (Cellulose, starch)	In-house	%	97.00
08.	Content of other fibre (as impurities)	In-house	%	≤ 3.0
09.	Identification of polymer	FT-IR	cm ⁻¹	3319, 2922, 2354, 1713, 1405, 1339, 1241, 1153, 1080, 1018, 1000, 872, 846, 722, 652

Comments- The supplied sample does not contain polystyrene (PS), polyethylene (PE) or propylene (PP) plastics. FT-IR & other data show that the composite sample complies with the standard FT-IR spectrum of carbohydrates (i.e., cellulose / starch).

[Signature]
10/12/2024

Analyst

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10.12.2024

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Notes:

1. The results reported here pertained to the sample(s) received in this laboratory only.
2. Complain and/or query regarding test report(s) should be lodged within one month of report delivery date.
3. The laboratory is not responsible for the data quality affected due to sampling, transporting and storage conditions of the sample(s) maintained before received in the laboratory.
4. The report/result shall not be reproduced / published partly or fully without prior approval of the authority.

Analytical Service Cell (ASC)

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