सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नालॉजी

(रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार) जी-सेक्टर, गोविन्दपुरा आद्योगिक क्षेत्र, भोपाल - 462 023 फोन : 2687454, 2688288 फेक्स : 91-755-2689041

ई-मेल : cipet.bhopal@gmail.com / bhopal@cipet.gov.in

Central Institute of Plastics Engineering & Technology

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India)

G-Sector, Govindpura Industrial Area, BHOPAL - 462 023

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क्र. : सिपेट /बी.सी/परीक्षण/ 1 🖎 🥤

दिनांक: 06.11.2015

प्रति.

भारतीय मानक ब्यूरो/ Bureau of Indian Standard 3rd Floor, Pushpak Building "Pushpak" Nurmohamed Shaikh Marg, Khanpur Ahmedabad -380 001, Gujarat

विषय प्रीक्षण हेत् ।

सन्दर्भ AHBO/Sample cell

दिनांक : 24.09.2015 & 06.10.2015

महोदय.

कृपया हमारी परीक्षण रिपोर्ट क्रमांक 17647 इनवाइस क्रमांक 608 दिनांक

प्राप्त करें।

सलंग्न कस्टमर फीड बैक फार्म भरकर वापस भेजने का कष्ट करें ।

धन्यवाद.

भवदीय,

तकॅनीकी प्रबंधक

संलग्न : उपरोक्तानुसार

मुख्यालय : सिपेट, गिण्डी, चेन्नै - 600 032

Corporate Office: CIPET, Guindy Chennai - 600 032



सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

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Phone : 2687454, 2688288 Fax : 91-755-2689041 E-mail : cipet.bhopal@gmail.com





PLASTIC TESTING CENTRE TEST CERTIFICATE

화.No.

8011

Issued to
Bureau of Indian Standard
3rd Floor, Pushpak Building
"Pushpak" Nurmohamed Shaikh Marg,
Khanpur Ahmedabad -380 001, Gujarat



टेस्ट रिपोर्ट नं.17647 दिनांक: 06.11.2015 पेज नं. 1 of 4

TEST REPORT AS PER IS: 16190-2014 with Amendment No. 1

PART – A

PARTICULARS OF SAMPLE SUBMITTED

जमूनाविवरण/ Sample details: Agro Textiles- High density Polyethylene (HDPE)

Laminated Woven lay Flay Tube for Irrigation Purpose- Specification.
- As stated by party

Your Ref. No. : AHBO/Sample cell Date: 24.09.2015 & 06.10.2015

Code No: AHBO/GR/20150921/PR/2

Grade/Variety/Type/Size/Class बेयर्ज /Batch No./Lot No./

उत्पादकता की दिनांक/Date of manufacturing

जमूले की मात्रा /Qty of sample received प्राप्तजमुलेकीदिवांक/Date of sample received

परीक्षण समय /Test Duration

प्राप्तनमुनेकीस्थिति/Condition of receipt of sample

अन्य विवरण/Any other details

Additional Information

: 63 mm Nominal Dia, 5 layer Laminated fabric.

: LFT/001

: 07-09-2015

: 30mtr. tube +laminated fabric + tap.

: 12.10.2015

: 12.10.2015 to 06.11.2015

0---

: Sample Date: 21-09-2015, Sample Type: AS,

Sample contains 30 mtr tube + laminated fabric + 100 mtr. tape.

Note:

 This report, in full or part, shall not be published, advertised, used for any legal action, unless prior permission has been secured.

This test report is only for the sample tested.

PART – B

SUPPLEMENTRY INFORMATIONS

a) Reference to sampling procedure wherever applicable

Supporting documents for the measurements taken and Results derived like graphs, tables, sketches and/or Photographs as appropriate to test report, if any

(to be attached).

Deviation from the test methods as prescribed in

Relevant work instruction, if any

Supplied by the party

As given in Part-C

Nil

निरंतर २ Contd.... 2

Declared Value

30 mtr Length

Sublay.

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Continuation Sheet

CIPET, BHOPAL

टेस्ट रिपोर्ट नं.17647 दिनांक :06.11.2015 पेज नं. 2 of 4

				PART-C		401 01, 2 01 4		
TEST RESULT AS PER IS: 16190-2014 with Amendment No. 1								
SI.N	Clause No.	Name of test	Test Method	Unit	Test value obtained	Specified Requirements		
01	4	Materials						
	4.1	HDPE Tapes	123		Conforms	Tape shall be manufacutred from HDPE granules		
		i) Width of the Tape		mm	2.53	2.50 min.		
		ii) Linear Density		denier	1073	700 min.		
02.	5.1	Manufacture			Conforms	Fabric shall be laminated with the low density polyetyhylene (LDP or suitable comination of LDPE LLDPE melt of coating grade or each side and the coating shall be UV stabilized by incorporating U stabilizer.		
		Lamination						
03.	5.2	Lamination			Conforms	A 5 layer laminated fabric is produced using a combination of 2 layer of HDPE faboric and 3 layers of coating film.		
		i) coating Thickness		Micron	39	Shall be 35 micron(min) The layers of HDPE fabric used to manufacture lay flat tube, shall be		
		ii) Sandwich lamination		Micron	Conforms 55	joined by sandwich lamination. Shall be 40 micron(min)		
04.	5.3	Overlap distance		mm	Conforms	The laminated HDPE woven fabric is to be formed in to lay flat to the required inside diameter using a heat scaling process keeping the minimum overlap of 30 mm.		

निरंतर३ Contd....3

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Continuation Sheet

Accreditation Board For Testing And Calibration Zook Laboratories Based Co Poster III ISO / IEC 17025 : 2005

CIPET, BHOPAL

टेस्ट रिवोर्ट नं.17647 दिनांक :06.11.2015 पेज नं. 3 of 4

			PART-0			
		TEST RESULT AS PER I	S: 16190-2	014 wi	th Amendn	nent No. 1
SI.N	Clause No.	Name of test	Test Method	Unit	Test value obtained	Specified Requirements
05.	6.0 Table 2	Mass	IS- 1964	g/m²	450	Min 260
		Breaking Strength Before U.V. Exposure	IS- 1969 (Part 1)			
		a)warp		N	1789	1200 (min)
		b)weft		N	1546	900 (min)
	6.0 Table 2	Elongation at Break	IS- 1969 (Part 1)			
	NAME OF TAXABLE PARTY.	a)warp		%	17.37	20±5
		b)weft		%	17.04	20±5
06.	6.0 Table 2	Retention of Breaking Strength After U.V. Exposure for 500hrs	Annex B			
		a)warp		N	1583	BS 0/ Contained and and february the
		b)weft		N	1359	85 % of original value(fabric),tha is of Table 2
	6.0 Table 2	Abrasion Resistance	IS14714	%	6.11	Loss in breaking strength shall not be more than 15%
	6.0 Table 2	Trapezoid tear strength a) Warp b) West	IS14293	N N	130 118	Min 100 Min 100
	6.0 Table 2	Puncture resistance	Annex C	N	734	Min 300
	6.0 Table 2	Environmental stress cracking test	Annex D		Conforms	There shall be no evidence of stress cracking.
	6.0 Table 2	Accelerated ageing test for 72 h at 70± 1°C	IS 7016 Pt 8	%	5.21	Loss in breaking strength shall not be more than 15 percent
07.	6.0 Table 2	Cold cracking resistance test at - 5°C	Annex E		Conforms	No specimen shall damage or broken.
08.	6.1 Table 1	Internal Diameter Tolerance		mm mm	63.71 (+) 0.71	(+)2.5, (-) 0

निरंतर४Contd....4

Subject.

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सिपेट, भोपाल



Continuation Sheet Accreditation Board For Testing And Calibration Laboratories Based On Calibration ISO / IEC 17025: 2005

CIPET, BHOPAL

टेस्ट रिवोर्ट नं.17647 दिनांक :06.11.2015 पेज नं. 4 of 4

		TEST RESULT AS	DED IC: 16	PART-C	A with Amon	dmont No. 1
SLN	Clause No.	Name of test	Test Method	Unit	Test value obtained	Specified Requirements
09.	6.2	Workmanship			Conforms	The lay flat tube shall be free from dirt, knots, lumps, irregularities of the tape and other visible defects.
10.	6.3	Hydrostatic Burst Pressure test		kg/cm ²	Not bursted at 2.6kg/cm ²	Shall not burst before a pressure of 2.6 kg/cm2 is reached.
11.	6.4	Proof pressure test		kg/cm ²	Conforms	Internal hydraulic pressure of 1.3 kg/cm2 shall not develop any leakage or sweating nor any thread in the jacket shall break.
12.	6.5	Length Tolerance	-	Mtr.	30.98	Unless specified othewise, the standard length shall be 30m. Tolerance of +5% shall be permitted on the length prescribed fo the lay flat tube by the purchaser. No negative tolerance shall be permitted.
13.	6.6	Kink Test		8 4 8	Conforms	There shall be no sign of leakage or rupture and no thread in the jacket shall break.
14.	6.7	Welded Seam Strength Before UV Exposure		N	1523	Welded seam strength Before UV exposure shall not be less than the 80% of the original actual fabric strength
15.	6.8	Welded Seam Strength After UV Exposure		N	1311	The loss in Welded seam strength after UV exposure shall not be More than the 15%
		l		PART-D		More than the 15%

Note:

- Selection of samples for individual test have been done in accordance with respective clause of IS: 16190-2014 with Amendment No.1.
- 2. Details of test sub-contracted: Nil.
- 3. Remnant samples will be disposed after 3 months from the date of issue of test report.

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