Annex 10

BUREAU OF INDIAN STANDARDS
BIS, Central Laboratory (CL)

ULR No. :

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20/9, Site 4, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Ghaziabad, Uttar Pradesh, India - 201010

Test REPORT AS PER : IS 16703 (2017)

QR Code/Barcode : 100000568950

REPORT NO : SUBO/64203/20231222/MS/7_1 DATE : 04 Mar, 2024

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address	:	-
b) Nature of sample	:	MS
c) Grade/Variety/Type/Class Size etc	:	Variety : WITH LAMINATION, WITHOUT LINER, WITHOUT UV STABILIZTION, GUSSETED, Type : 25 KGS WOVEN SACK PP
d) Declare values, if any	:	--
e) Batch No. & Date of Manufacture	:	10L23jai/
f) Quantity	:	10 NOS
g) Date of Receipt	:	08 Jan, 2024
h) BIS Seal	:	Verified by Sample Cell
i) IO's Signature	:	Verified by Sample Cell
j) Any other Information / Expiry Date, If any	:	/
k) Date of Commencement of Testing	:	17 Jan, 2024
l) Date of Completion of Testing	:	04 Mar, 2024
m) Section Code	:	24C5F82N, 24M6423N
n) Section Report No.	:	24C5F82N_1, 24M6423N_1
o) Report Type	:	New
p) Reference Report No.	:	
q) Remarks	:	

A K MOHINDROO
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 04 Mar, 2024 17:42 PM

1. This report, in full or in part, shall not be published, advertised, used for commercial purpose or any legal action, unless prior permission has been ecured from the Director General, Bureau of Indian Standards . This report Is intended for "BIS CERTIFICATION MARKS PURPOSE ONLY"

2. This test report is ONLY FOR THE SAMPLE TESTED.

This is a Computer Generated Report.

PART B. SUPPLEMENTARY INFORMATION

1.	Reference to sampling procedure, wherever applicable.	Not Applicable
2.	Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3.	Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
3.	NABL Report required ?	-

Simesh Kumar
OIC Chemical
(Authorized Signatory)
Authorized on: 23 Jan, 2024 16:37 PM

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Conformity	Result/ Observation
1	(Clauses 4.2, 5.1, 5.2, 5.3 and 5.4) Table 1	Ash Content ,b) For non- UV stabilized sacks	percent	-	6.0	-	Conforms	4.5
2	(Clauses 4.2, 5.1, 5.2, 5.3 and 5.4) Table 1	Ash Content ,a) For UV stabilized sacks	percent	-	-	-	-	Test Not Applicable

Simesh Kumar
OIC Chemical
(Authorized Signatory)
Authorized on: 23 Jan, 2024 16:37 PM

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PART D. REMARKS

Simesh Kumar
OIC Chemical
(Authorized Signatory)
Authorized on: 23 Jan, 2024 16:37 PM

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PART B. SUPPLEMENTARY INFORMATION

1.	Reference to sampling procedure, wherever applicable.	Not Applicable
2.	Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	No
3.	Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	No
3.	NABL Report required ?	No

SHALU VARSHNEY
OIC Mechanical
(Authorized Signatory)
Authorized on: 04 Mar, 2024 17:27 PM

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	5.2 Table 1	Elongation at break of fabric (Ravelled strip method), percent : IS 1969 (Part 1)	Widthwise	15.0	25.0	%	20.2 (%)
2	5.2 Table 1	Elongation at break of fabric (Ravelled strip method), percent : IS 1969 (Part 1)	Lengthwise	15.0	25.0	%	20.6 (%)
3	5.2 Table 1	Breaking strength of bottom seam (Ravelled strip method), Min, N) (kgf) - IS 9030	N	390.0	-	N	731.7 (N)
4	5.2 Table 1	Average breaking strength of fabric [Ravelled strip method, 325 mm × 70mm1)] Min, N2) (kgf): - IS 1969 (Part 1)	Widthwise, N	834.0	-	N	919.0 (N)
5	5.2 Table 1	Average breaking strength of fabric [Ravelled strip method, 325 mm × 70mm1)] Min, N) (kgf): - IS 1969 (Part 1)	Lengthwise, N	834.0	-	N	950.5 (N)
6	5.2 Table 1	Mass of sack, Gusseted type, g - IS 1964	Mass of sack, Gusseted type, g	110.92	125.08	g	115.4 (g)
7	5.2 Table 1	Picks per dm	Picks per dm	38.0	42.0	per dm	40.0 (per dm)
8	5.2 Table 1	Ends per dm	Ends per dm	38.0	42.0	per dm	38.0 (per dm)
9	**5.2 Table 1**	**Dimensions**	**Bottom fold length (f) mm**	**50.0**	**65.0**	**mm**	**29.8 (mm)**
10	5.2 Table 1	Dimensions	Width of gusset (2 × g) mm	125.0	140.0	mm	131.6 (mm)
11	**5.2 Table 1**	**Dimensions**	**Width of sack (W) mm**	**550.0**	**570.0**	**mm**	**434.4 (mm)**
12	5.2 Table 1	Dimensions	Length of sack (L), (from bottom stitch to top) mm	865.0	885.0	mm	884.8 (mm)
13	5.1	Mass of Bale	The mass of bale of sacks (excluding packing materials) shall be within ± 3 percent of the mass calculated by multiplying the number of sacks with the mass of sack specified in Table 1.	-	-	-	Test Not Applicable

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PART D. REMARKS

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PART C TEST RESULTS **IS 16703:2017**

TEST REPORT NO. **24M6423N**

S.NO.	TESTS		SPECIFIED REQUIREMENTS	RESULTS
1)	**Manufacture** (Cl.3)	**a)**	**Raw Material** The high density polyethylene (HDPE) or polypropylene (PP) used for manufacture of tape shall virgin and confirm to the requirements specified in IS 10146 or IS 10910 respectively.	**Raw Material not Supplied**
		b)	**Fabric**	
		i)	The fabric used in the manufacture of HDPE/PP woven sacks shall be woven as a tube on circular looms from HDPE/PP tapes having width of 2.5 mm ± 0.1 mm conforming to IS 6192 and IS 11197 respectively, linear density of apes shall be 900 denier for 10 × 10 per inch mesh fabric. For specific applications,necessitating higher fabric mesh, the tape linear density shall be maintained accordingly. The denier of HDPE/PP tapes used in the manufacture of woven fabric shall be subjected to the following tolerances: a) ± 10 percent on individual value, and b) ± 5 percent on average.	**Raw Material not Supplied**
		ii)	The un-laminated fabric mass shall not be less than 80 g/m2, regardless of tape linear density and fabric mesh	**Raw Material not Supplied**
		c)	**Sacks**	
		i)	The sacks shall be produced from tubular fabric woven as tube on a circular loom and cut to the required length.	**Circular Loom**
			Bottom Seam	
		i)	The stitching of bottom seam shall be done with single rows of chain stitch and minimum 10 mm from the bottom edge of the sack.	**Single Rows 10.6 mm**
		ii)	The stitching shall be done with single fold over seam to a depth of minimum 25 mm, so that the stitches pass through a minimum of four layers of the fabric.	**Conforms 14.3 mm**
		iii)	The number of stitches/dm shall be 14 ± 2.	**13/dm**
		iv)	The stitching shall be uniform without any missing stitch, loose thread or knot.	**Satisfactory**
		v)	The material used for stitching shall be HDPE/PP tape as used in the fabric or any other multifilament twisted thread or spun yarn suitable for the purpose, having breaking load not less than 90 N.	**Raw Material not Supplied**
		d)	**Capacity** The sack shall have the nominal capacity of 25 kg	**25Kg (Declared)**
2)	**Requirements** (Cl. 4.2, Table 1)	viii)	Drop impact strength	**Test facility not available**
		ix)	Ash Content, Max % a) For UV stabilized sacks 2.2 b) For non- UV stabilized sacks 6	**Test facility not available**

PART D REMARKS :

End of Report