

Laboratory Inspection Syndicate of India Private Limited, 76/A, Dhan Devi Khanna Road, Phool Bagan, Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7223

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Validity 26.04.2018 to 25.04.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	TEXTILE			
1.	Jute Bags & Fabric	Oil content (%)	IS 2969:1974 (RA 2016)	Upto 10%
		Moisture Regain (Oven Dry Method) & Moisture Content (Oven Dry Method)	IS 199:1989 (R.A:2016) / IS:2387:1969 (RA 2014)	Upto 35%
II.	PLASTICS & RESINS			
2.	Woven Sacks, Fabric & Liner PP/HDPE/LDPE/LLD PE	Ash content (%)	IS 13360 (Part-8/Sec-8):2004 ISO 3451-1:1997. (Method-A) (RA 2015)/ IS:9755:2016 (Annex-C) Or IS:11652:2017(Annex-D) / IS:14887:2014 (Annex-D) / IS:16208:2015 (Annex-D) / IS:14968:2015 (Annex-D) & IS:16709:2017 (Annex-E)	Upto 50%

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MECHANICAL TESTING

I.	TEXTILE MATERIALS			
1.	Jute Bags & Fabric	No. of stitching	IS 1963:1981 (RA 2014)	Up to 20/dm
		Dimensions Length, Width & Valve	IS 1954:1990 (RA 2017)	Up to 150 cm
		Corrected Mass of Bag (On Moisture Regain Basis) Corrected Mass of Fabric(GSM) (On Moisture Regain Basis)	Clause-8.5.2 of IS 9113:2012 & IS:C-3 of IS:3790:1991 (RA 2016), IS:2387:1969 (RA 2014)	Up to 1500 g Up to 1000 g/m ²
		Ends / dm & Picks /dm	IS 1963:2004 (RA 2014)	Up to 150 per dm
		<u>Breaking Strength</u> Warp way & Weft way	IS 1969:1985 Amnd-1 (RA 1999)	Up to 4000 N/408 kgf
		Seam Strength. Top / Bottom / Side	IS 9030:1979 (RA 2014)	Up to 2000 N/204 kgf
II.	PLASTICS & POLYMERS			
1.	PP/HDPE	No. of stitching	IS 1963:2004 (RA 2014)	Up to 20/dm
		Dimensions Length, Width & Valve	IS 1954:1990 (RA 2017)	Up to 150 cm
		Mass of Sack & Mass Of Fabric(GSM)	IS 1964:2017	Up to 500 g. Up to 300 g/m ² .
		Ends / dm & Picks /dm	IS 1963:2004 (RA 2014)	Up to 60 per dm
		<u>Breaking Strength</u> Length wise(Warp) & Width wise(Weft)	IS:1969 (Part-1):2009 (RA 2014) & IS:1969:1985 Amnd-1 (RA 1999)	Up to 2000 N / 204 kgf.

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		Seam Strength. Top / Bottom & Weld Strength Top/Bottom Closure patch	IS 9030:1979 (RA 2014)	Up to 1000 N/ 102 kgf.
		Elongation at Break a) Length wise(Warp) b) Width wise(Weft)	IS:1969:1985 And-1 (RA 1999) & IS:1969 (Part-1): 2009 (RA 2014)	Up to 40%
		<u>UV - Resistance test</u> 1. Breaking Strength A) Before Exposure a) Length wise(Warp) b) Width wise(Weft) B) After Exposure a) Length wise(Warp) b) Width wise(Weft)	IS:9755:2016(Annex-D)/ IS:11652:2017(Annex-F) / IS:14887:2014 (Annex-C) / IS:16208:2015(Annex-C) / IS:14968:2015 (Annex-C) & IS:14738:(Part-5):1999 (RA 2014)	Up to 2000 N//204 kgf. Up to 1500 N /153 kgf.
		<u>UV - Resistance test</u> Elongation at Break A) Before Exposure a) Length wise(Warp) b) Width wise(Weft) B) After Exposure a) Length wise(Warp) b) Width wise(Weft)	IS:9755:2016(Annex-D)/ IS:11652:2017(Annex-F) / IS:14887:2014 (Annex-C) / IS:16208:2015(Annex-C) / IS:14968:2015 (Annex-C) & IS:14738:(Part-5):1999 (RA 2014)	Up to 40% Up to 30%
		Retention of original Breaking Strength After Exposure a) Length wise(Warp) b) Width wise(Weft)	IS:9755:2016(Annex-D)/ IS:11652:2017(Annex-F) / IS:14887:2014 (Annex-C) / IS:16208:2015(Annex-C) / IS:14968:2015 (Annex-C) & IS:14738:(Part-5):1999 (RA 2014)	Up to 90%

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2.	Polythene Film LDPE/ LLDPE	Loose Liner Thickness	IS 2508:2016	Up to 400 micron
3.	LDPE/ LLDPE	Tensile Strength at Break a) Length wise b) Cross wise	IS 2508:2016	Up to 500 kgf per cm ²
		Elongation at Break a) Length wise b) Cross wise	IS 2508:2016	Up to 1500%