

Laboratory	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	15.09.2014
Certificate Number	T-1491	Valid Until	14.09.2016
Last Amended on	-	Page	1 of 7

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. PLASTICS, RUBBER AND LEATHER				
1.	Container for Packing of Natural Mineral Water and Packaged Drinking Water (Cups, glasses, bottles & Jars)	Design, Shape and dimension	IS 15410 : 2003 Amendments I, II and III	Visual
		Manufacture, Workmanship, Finish and Appearance	IS 15410 : 2003 Amendments I, II and III	Visual
		Capacity Nominal Brimful	Clause 5 of IS 2798 : 1998 (RA 2003) Amnd 2 1st Rev.	100 ml to 2 litres Above 2 litres to 25 litres
		Wall thickness	Clause 5 of IS 2798 : 1998 (RA 2003) Amnd 2 1st Rev.	0.001 mm to 25 mm
		Transparency	Annex A of IS 15410 : 2003 Amendments I, II and III	30% to 100%
		<u>Leakage Test</u> a. Vibration Leakage b. Closure Leakage c. Air Pressure Leakage	Clause 6 of IS 2798 : 1998 (RA 2003) Amnd 2 1st Rev.	Visual
		Drop Test	Clause 8 of IS 2798 : 1998 (RA 2003) Amnd 2 1st Rev.	Visual
		Water Potability test	IS 15410 : 2003 Amendments I, II and III Annex B	Organoleptic

Laboratory	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	15.09.2014
Certificate Number	T-1491	Valid Until	14.09.2016
Last Amended on	-	Page	2 of 7

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Polyethylene Flexible Pouches For Natural Mineral Water & Packaged Drinking Water	Vibration leakage test	IS 15609 : 2005 Annex. D Amnd 1	Visual
		Water potability test	IS 15609 : 2005 Annex. E Amnd 1	Organoleptic
		Stack load Test	IS 15609 : 2005 Annex. F Amnd 1	Visual
		Drop test	IS 15609 : 2005 Annex. G Amnd 1	Visual
		Ink adhesion test for printed pouch	IS 15609 : 2005 Annex. H Amnd 1	Visual
		Product resistance test for printed pouch	IS 15609 : 2005 Annex. J Amnd 1	Visual
3.	Polyethylene Films For Natural Mineral Water & Packaged Drinking Water	Visual Appearance	IS 15609 : 2005 Amnd 1	Visual
		Odour	IS 15609 : 2005 Amnd 1	Organoleptic
		Thickness	IS 2508 : 1984 (RA 2003) 2nd Rev. Amnd 3 & RA 2008	0.01 mm to 0.5 mm
		Width	IS 15609 : 2005 Amnd 1	200 mm to 400 mm
		Tensile Strength Lengthwise & Crosswise	A-4 of IS 2508 : 1984 (RA 2003) 2nd Rev. Amnd 3 & RA 2008	150 to 400 kgf/cm ²
		Elongation at break	A-4 of IS 2508 : 1984 Amnd 3	100% to 900%
		Dart impact resistance	A-6 of IS 2508 : 1984 (RA 2003) 2nd Rev. Amnd 3 & RA 2008	50 to 250 gf

Laboratory	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	15.09.2014
Certificate Number	T-1491	Valid Until	14.09.2016
Last Amended on	-	Page	3 of 7

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	High Density Polyethylene Pipes for Water supply	Nominal Diameter	IS 4984 : 1995 Amnd 6, Cl.3.4	10 mm to 300 mm L.C. 0.02 mm
		Outside Diameter	IS 4984 : 1995 Amnd 6, Cl.6.1	10 mm to 300 mm L.C. 0.02 mm
		Wall Thickness	IS 4984 : 1995 Amnd 6, Cl.6.2	1 mm to 25 mm L.C. 0.001 mm
		Ovality	IS 4984 : 1995 Amnd 6, Cl.6.3.2	0.1 mm to 3 mm L.C. 0.02 mm
		Length	IS 4984 : 1995 Amnd 6, Cl.6.4	Upto 10mtrs L.C. 10 mm
		Visual Appearance	IS 4984 : 1995 Amnd 6, Cl.7	Visual
		Hydraulic Characteristics	IS 4984 : 1995 Amnd 6, Annex B	Upto 280 mm dia Qualitative
		Reversion Test	IS 4984 : 1995 Amnd 6, Annex C	0.1 to ± 10%
		Melt Flow Rating	Cl.7 of IS 2530 : 1963	Upto 4.0 g/10 mins
		Overall Migration Test	IS 9845 : 1998 & IS 10146 : 1982 Amnd 1	Upto 100 ppm
	Density	IS 4984 : 1995 Amnd 6, Cl.No.8.4 IS 7328 : 1992 Amnd 2 Annex A	900 to 1000 kg/m ³	

Laboratory	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	15.09.2014
Certificate Number	T-1491	Valid Until	14.09.2016
Last Amended on	-	Page	5 of 7

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Resistance to external blows at 0°C	IS 12235 : 2004 Part 9	Qualitative
		Density	IS 12235 : 2004 Part 14 IS 13360 : 2000 (Part 3/Sec 1)	1 to 5 g/cc
II. TEXTILE MATERIALS				
1.	Textiles & Garments	Count (Linear density) of thread removed from fabric (Woven & Knitted)	RALPL Inhouse method- RALPL/MECH-TEXTILE/01:2012	5 to 100 Tex
		Threads per unit length (Ends and Picks per dm)	IS 1963 : 1981 ASTM D 3775- 2012 ISO 7211-2 : 1984 BSEN 1049-2 : 1994	10 to 800 per dm
		Stitch Density in Knitted fabrics	ASTM D 3887 : 96 (2008)	10 to 800 per dm
		GSM (Weight per unit area or length)	IS 1964 : 2001 ASTM D 3776/D3776M-09a (2013) ISO 3801 : 1977	10 to 500 gsm
		Tensile Strength (Strip strength) and Elongation at break	IS 1969 : 2009 Part 1 ASTM D 5035 - 11 ISO 13934 -1 : 1999	20 N to 5000 N (Strength) 1% to 50% (Elongation)

