

Laboratory	Plastics Testing Centre, Central Institute of Plastics Engineering & Technology, 437/A, Hebbal Industrial Area, Mysore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	13.06.2014
Certificate Number	T-0214	Valid Until	12.06.2016
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S.No.	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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I. PLASTICS, RUBBER AND LEATHER

1.	Plastics Materials & Products	Density	IS 4984-95 (RA 08), IS 4985-2000 (RA 10), IS 7328-92 (RA 08), IS 8543 (Part-1/Sec 2)-79, IS 12235 (Part-14)-04, IS 13360 (Part-3/Sec1)-95, IS 14333-96 (RA 07), ASTM D 792-13	0.8 to 2.5 g/cc (800 to 2500 kg/m ³)
		Abrasion Resistance	ASTM D 4060-10	0.01 to 200 g
		Rockwell Hardness	ASTM D 785-08	M and R Scales: 10 to 80
		Water Absorption	ASTM D 570-98 (Reapproved 2005)	0.1 to 10%
2.	Thermoplastic Resin, Films, HDPE Pipe	Melt Flow Index	IS 2508-84 (RA 08), IS 2530-63, IS 4984-95 (RA 08), IS 14333-96 (RA 07), ASTM D 1238-13	0.2 to 60 g/10 min
3.	Plastic Materials, Pipes	Pipe stiffness, Crush resistance, Flattening test	IS 14787-2000	1 N to 1 kN

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4.	PVC/HDPE Pipe/ Sprinkler Pipes/ Water storage Tank & Other Containers	Dimensions (Diameter, thickness, height measurement, Length, mass of tank etc.)	IS 2508-84 (RA 08), IS 4984-95 (RA 08), IS 4985-00 (RA 10), IS 7408 (Part 1-3)-1984, IS 7834 (Part 1 to 8)-87 (RA 08), IS 10124 (Part-1 to 13)-03, IS 12701-96 (RA 06), IS 12786-89 (RA 09), IS 12818-2010, IS 13592-92 (RA 08), IS 14151 (Part-1,2)-99/08 (RA 09), IS 14333-96 (RA 07), IS 14787-2000, IS 14887-00 (RA 10)	20 to 1100 mm dia & 100 g to 250 kg
5.	LLDPE Lateral Products, Thermo Plastics Materials	Environmental stress cracking resistance (ESCR)	IS 12786-89 (RA 09), ASTM D 1693-13	NA
6.	Plastics Materials	Heat distortion temperature	ASTM D 648-07	50 to 300°C
7.	PVC Pipes, PE Pipes & Couplers, Irrigation Laterals	Hydraulic characteristics (Acceptance Test, Quality Test, Fusion compatibility test, Leakage test, hydraulic proof test etc.)	IS 3076-85, IS 4984-95(RA 08), IS 4985-00(RA 10), IS 7834 (Part-1)-87, IS 10124 (Part-1)-88, IS 12235 (Part-8)-04, IS 12786-89 (RA 09), IS 14151 (Part-1, 2)-99/08, IS 14333-96 (RA 07)	0.2 to 6 MPa

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8.	All Thermo Plastics Materials	Melting Point	IS 13360 (Part 6/ Sec 10)-92, ASTM D 3418-12	50 to 300°C
9.	PVC Pipe	Opacity	IS 4985-00 (RA 10), IS 7834 (Part-1)-87, IS 10124 (Part-1)-88, IS 12235 (Part-3)-04	0 to 10%
10.	Irrigation Laterals, PVC & PE Pipe	Reversion	IS 3076-85, IS 4984-95 (RA 08), IS 4985-00 (RA 10), IS 12235 (Part-5)-04, IS 12786-89 (RA 09), IS 14151 (Part-1)- 99 (RA 09), IS 14333-96 (RA 07)	0 to 10%
11.	Soft Plastics Products	Shore A & D hardness test	ASTM D 2240-05	10 to 90
12.	PVC Pipe/ Screen & Casing Pipes	Vicat softening point	IS 6307-85, IS 4985-00 (RA 10) IS 12235 (Part-2)-04, ASTM D 1525-09	25 to 250°C

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