

Laboratory	Central Institute of Plastics Engineering & Technology (CIPET), DCRUST Campus, 50th Mile Stone, NH-1, Murthal, Sonapat, Haryana		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Mechanical Testing	Issue Date	11.01.2014
Certificate Number	T-1627	Valid Until	10.01.2016
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S.No.	Product/ Material of Test	Specific Tests Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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I. PLASTICS & PLASTIC PRODUCTS

1.	Polyethylene (HDPE) Pipes for Water Supplies, Polyethylene Pipes for Irrigation Laterals, Irrigation Equipment Sprinkler Polyethylene Pipes, UPVC Pipe for Potable Water Supplies, UPVC Pipes for SWR	Reversion Test	IS 4984-1995 (Reaffirmed 2002) IS 12786-1989 (Reaffirmed 2006) IS 14151-1999 (Part-1) (Reaffirmed 2004) IS 12235-2004 (Part 5/Sec I) IS 12235-2004 (Part 5/Sec I)	0.02 to 10 mm
2.	UPVC Pipe for Potable Water Supplies, UPVC Screen and Casing Pipes for Bore/Tube Well, UPVC Pipes for SWR, Low Density Polyethylene Films, Polyethylene (HDPE) Pipes for Water Supplies, Polyethylene pipes for Irrigation Laterals, Quick Coupled Polyethylene pipes	Dimension	IS 4985-2000 (Reaffirmed 2005) IS 12818-2010 IS 13592-1992 (Reaffirmed 2002) IS 2508-1984 (Reaffirmed 2003) IS 4984-1995 (Reaffirmed 2002) IS 12786-1989 (Reaffirmed 1998) IS 14151(Part 1)1999 (Reaffirmed 2004)	0.001 to 600mm

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3.	Rotational Molded Polyethylene Water Storage tanks	Dimension Thickness I.D. O.D. Height	IS 12701-1996 (Reaffirmed 2006)	0.01 to 8000 mm
4.	UPVC Pipe for Potable Water Supplies, UPVC Screen and Casing Pipes for Bore / Tube Well, UPVC Pipes for SWR, Polyethylene (HDPE) Pipes for Water Supplies, Rotational Moulded Polyethylene Water Storage Tanks, Polyethylene Pipes for Irrigation Laterals, Quick Coupled Polyethylene Pipe	Visual Appearance	IS 4985-2000 (Reaffirmed 2005) IS 12818-2010 IS 13592-2013 IS 4984-1995 (Reaffirmed 2002) IS 12701-1996 (Reaffirmed 2006) IS 12786-1989 (Reaffirmed 2006) IS 14151-1999 (Part-I) IS 14151-2008 (Part-II)	Qualitative

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5.	Polyethylene (HDPE) Pipes for Water Supplies, Polyethylene pipes for Irrigations Laterals, Quick Coupled Polyethylene Pipe, UPVC Pipe for Potable Water Supplies	Hydraulic Characteristics (Acceptance & Type)	IS 4984-1995 (Reaffirmed 2002) IS 12786-1989 (Reaffirmed 2006) IS 14151-1999 (Part-I) (Reaffirmed 2004) IS 12235-2004 (Part-8 Sec-1)	Qualitative
6.	UPVC pipe for Potable Water Supplies, UPVC Screen and Casing Pipes for Bore/Tube Well, UPVC Pipes for SWR	Resistance to External Blow at 0°C	IS 4985-2000 (Reaffirmed 2005) IS 12235-2004 (Part-9) IS 12235-2004 (Part-9)	Qualitative
7.	Polyethylene (HDPE) Pipes for Water Supplies, Rotational Moulded Polyethylene Water Storage Tanks, Quick Coupled Polyethylene Pipe UPVC pipe for Potable Water Supplies Low Density Polyethylene Films Plastics Material	Density	IS 7328-1992 (Reaffirmed 2003) IS 7328-1992 (Reaffirmed 2003) IS 7328-1992 (Reaffirmed 2003) IS 12235-2004(Part-14)-2004 IS 2508 1984 (Reaffirmed 2003) ASTM D 792-2008	0.7 to 0.3 g/cc

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8.	UPVC Screen and Casing Pipes for Bore/Tube Well Plastics Material	Specific Gravity	IS 8543(Part-1/Sec-2)-1979 (Reaffirmed 1986) ASTM D 792-2008	0.7 to 0.3 g/cc
9.	Rotational Molded Polyethylene Water Storage Tanks, Polyethylene Pipes for Irrigation Laterals, Quick Coupled Polyethylene Pipe Low Density Polyethylene Films, UPVC Pipes for SWR, UPVC Screen and Casing Pipes for Bore/Tube Well Plastics Material	Tensile Strength & Elongation	IS 8543-1984(Part-4/Sec-1) (Reaffirmed 2003) IS 2530-1963 (Reaffirmed 2003) IS 14151 (Part-1)-1999 (Reaffirmed 2004) IS 2508 1984 (Reaffirmed 2003) IS 8543(Part-4/Sec-1)-1984 (Reaffirmed 2003) IS 8543 (Part-4/Sec-1)-1984 (Reaffirmed 2003) ASTM D 638-2010	1 to 500 kgf/cm ² & 1 to 1000%
10.	UPVC Pipe for SWR	Water Tightness of Joint at 1.5 to 60 kg/cm ²	IS 13592-2013	Qualitative

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11.	Quick Coupled Polyethylene Pipe	Fusion Compatibility Test	IS 14151(Part-1) 1999 (Reaffirmed 2004)	Qualitative
		Hardness (ShoreA)	IS 14151(Part-II) 2008	1 to 90
		Leakage Test	IS 14151(Part-II) 2008	Qualitative
		Weldability Test	IS 14151(Part-II) 2008	Qualitative
12.	Rotational Molded Polyethylene Water Storage Tanks Plastics Material	Net/Gross Capacity	IS 12701-1996 (Reaffirmed 2006)	0.1 to 20000 L
		Resistance to Deformation	IS 12701-1996 (Reaffirmed 2006)	0.001 to 20 mm
		Top Deformation Load	IS 12701-1996 (Reaffirmed 2006)	Qualitative
		Resistance to Impact	IS 12701-1996 (Reaffirmed 2006)	Qualitative
		Flexural Modulus	IS 13360(Part-5/Sec-7) 1996 (Reaffirmed 2003) ASTM D 790-2010	1 to 50000 MPa
13.	Low Density Polyethylene (LDPE) Films	Impact Resistance	IS 2508-1984 (Reaffirmed 2003)	Qualitative

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