

Laboratory Central Institute of Plastics Engineering & Technology (CIPET), B-27, Amausi Industrial Area, Lucknow, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 01.04.2015

Certificate Number T-0231 **Valid Until** 31.03.2017

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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
I. PLASTICS AND RESINS				
1.	HDPE Pipe , PE Lateral Pipe , QCPE Springlar Pipe, QCPE Springlar Coupler , HDPE Sewarage Pipe, PE Microtube , PE Black Film , Emitters , Emitting Pipe , HDPE Fittings, Rotomoulded PE Water Storage Tank , PPR Pipe , PE/AL/PE Composite Pipe, Laminated HDPE Fabric, Polyethylene Material For Moulding And Extrusion , Rubber	Carbon Black Content Carbon Black Dispersion	IS 2530: 1963 (RA 2003) / ASTM D 1603: 2014 IS 2530: 63 (RA 2003)	0.01 % to 10 % Qualitative (Pass/Fail)
3.	PE Gas Pipe, Plastic Raw Materials, Polyethylene Pipe	Volatile Moisture Content	IS 14885: 2001	Upto 10 g/kg
4.	Plastic Materials	Water Absorption of Plastics	ASTM D 570: 98(2010)	0 % to 30 %

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	Plastic Materials	Filler / ASH Content	ASTMD E:1131:2010	Upto 80 %
		Determination of moisture content	ASTMD 6980 -09	0 to 3%
		Determination of Tg and Tm by DSC	ASTM D:3418-2010, IS: 15410-2003,	(-) 70 to 500 °C
5.	Pe Lateral Pipe, Emitting Pipe, Vermibed, Microtube	Environmental Stress Cracking Resistance	ASTM D 1693: 13 IS 12786: 89 IS 13488: 92	Qualitative (Pass/Fail)
6.	UPVC Pipes UPVC Plain Screen And Casing Pipes PVC Fittings, CPVC Pipes For Hot & Cold Water Supplies	Effect on Water Test on PVC Pipes – Concentration of Lead, I ext. III, ext. Cadmium, Mercury, Tin	IS 12235 (Part 4 and 10): 2004 IS 7834 (Part 1): 1987 Appendix C	0.05 mg/l to 10 mg/l
7.	HDPE Pipe , PE Tank, PPR Pipe , PE /AL/PE Composite Pipe, PE Water Pouch , Plastics Materials	Overall Migration	IS 9845: 1998 IS 4984: 95 IS 12701: 96 (RA 2002)	Upto 100 mg/l
8.	PVC Resin	K – Value	IS 4669: 1968 (RA 2003)	50 to 70
9.	UPVC Pipe	Sulphated Ash Content	IS 4985: 2000	Upto 60 %

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10.	UPVC Fitting For DUCT SWR Pipe UPVC SWR Pipe	Resistance to Sulphuric Acid	IS 14735: 99 IS 12235 (Part 7): 2004	Upto 1 g
11.	PVC Pipes & Fitting	TiO ₂ Test	IS: 14787 – 2000 , IS: 14735 – 1999	Upto 20%
12.	Plastic materials and Rubber	% WT. Loss by TGA (EVA Content)	ASTM E:1131:2010	Upto 100 %
13.	PE /AL/PE Composite Pipe , PE gas pipe	Oxidation Induction Time and Thermal Stability	IS :15450: 2004 Annex H	Upto 100 Mints.

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