

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### *Accurate Test Solutions LLP*

2<sup>nd</sup> Floor, B-50, Sector-2, Noida,  
Gautam Buddha Nagar-201301, Uttar Pradesh, India

has been assessed and accredited in accordance with the Standard  
**ISO/IEC 17025:2017**

“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
**Testing**

This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.



**QAI/CIA/TL/2025/0136**

Valid from: 05 September 2025

Valid until: 04 September 2027

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: [www.qai.org.in](http://www.qai.org.in)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and resins		
1.	Chlorinated Polyvinyl Chloride (CPVC) Fittings for Potable Hot and Cold-Water Distribution Supplies	Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
2.		Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
3.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
4.		Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
5.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
6.	Chlorinated Polyvinyl Chloride (CPVC) Pipes for potable Hot and Cold-Water Distribution Supplies	Chlorine content test	IS 15778:2007
7.		Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
8.		Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
9.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
10.		Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
11.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and resins		
12.	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agriculture Pumps	Loss of mass on heating	IS 15265:2003
13.		Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
14.		Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
15.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
16.		Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
17.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
18.	High Density Polyethylene Pipes for Sewerage	Carbon black content	IS 2530:1963
19.		Carbon black dispersion	IS 2530:1963
20.		Carbon black content (for loading)	IS 14333:2022/IS 2530
21.		Oxidation induction time	IS 4984:2016
22.		Volatile content	IS 4984:2016
23.		Ash content	IS 14333:2022
24.		Water content	IS 4984:2016
25.	Irrigation Equipment - Emitting Pipe Systems	Volatile content	IS 12786:2024
26.		Carbon Black Content	IS 2530:1963
27.		Antioxidant (DNPD)	IS 12786:2024
28.		Carbon Black Dispersion	IS 2530:1963
29.		Susceptibility to Environmental Stress Cracking	IS 12786:2024

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic and resins</b>		
30.	Irrigation Equipment - Emitting Pipe Systems	Toluene extract of carbon black	IS 12786:2024
31.	Irrigation Equipment - Polyethylene Pipes for Irrigation Laterals	Volatile content	IS 12786:2024
32.		Carbon Black Content	IS 2530:1963
33.		Antioxidant (DNPd)	IS 12786:2024
34.		Carbon Black Dispersion	IS 2530:1963
35.		Susceptibility to Environmental Stress Cracking	IS 12786:2024
36.		Toluene extract of carbon black	IS 12786:2024
37.	Plastics piping systems for water supply and for drainage and sewerage under pressure — Polyethylene (PE)	Carbon Black Content	ISO 6964:2019
38.		Carbon Black Dispersion	ISO 18553:2025
39.		Pigment dispersion	ISO 18553:2025
40.		Oxidation induction time	ISO 11357(Part 6):2025
41.		Pigment dispersion	ISO 18553:2025
42.		Overall migration test (Simulant -A)	IS 9845:1998
43.		Volatile content	EN 12099:1997
44.		Water content	ISO 15512:2019
45.	Polyethylene Pipes for the Supply of Gaseous Fuels	Volatile content	IS 4984:2016
46.		Anti-Oxidant	IS 2530:1963
47.		Oxidation Induction Time	IS 4984:2016
48.		Pigment dispersion	IS 14885:2022
49.		Effect of gas condensate	IS 14885:2022
50.		Water content	IS 4984:2016

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and resins		
51.	Polyethylene Pipes for Water Supply	Carbon black content	IS 2530:1963
52.		Carbon black content (for loading)	IS 2530:1963
53.		Ash content	IS 2530:1963
54.		Carbon black dispersion	IS 2530:1963
55.		Overall migration test (Simulant -A)	IS 9845:1998
56.		Volatile Content	IS 4984:2016
57.		Oxidation induction time	IS 4984:2016
58.		Water Content	IS 4984:2016
59.	Polypropylene-Random Copolymer Pipes for Hot and Cold-Water Supplies	Anti-oxidant	IS 15801:2008
60.		Carbon black content	IS 2530:1963
61.		Carbon black dispersion	IS 2530:1963
62.		Influence on water intended for human consumption (Test for overall migration simulant-A)	IS 9845 :1998
63.	Product for Irrigation Equipment- quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Carbon black content (for loading)	IS 2530:1963
64.		Carbon Black Content	IS 2530:1963
65.		Antioxidant (DNPD)	IS 17425:2020
66.		Ash content	IS 17425:2020
67.		Carbon black dispersion	IS 2530:1963
68.	Product for Irrigation Equipment- quick Coupled Polyethylene Pipes and	Rubber identification	IS 17425:2020
69.		Thermal stability	IS 4984:2016
70.		Volatile Matter	IS 4984:2016

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and resins		
71.	Fittings for Sprinkler Irrigation Systems	Water content	IS 4984:2016
72.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage and Sewerage Systems	Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
73.		Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
74.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
75.		Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
76.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
77.	UPVC Injection Moulded Fittings for Soil and Waste discharge System for Inside and Outside Buildings Including Ventilation and Rain Water System	Resistance to sulphuric acid	IS 12235(Pt-7):2004
78.		Sulphated Ash Content	IS 14735:1999
79.		Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
80.		Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
81.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic and resins</b>		
82.	UPVC Injection Moulded fittings for Soil and Waste discharge System for Inside and Outside Buildings including Ventilation and Rain Water System	Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
83.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
84.		Titanium Dioxide Content	IS 14735:1999
85.		K- Value	IS 4669:1968
86.		Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
87.	Fabricated PVC-U Fittings for Potable Water Supplies	Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
88.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
89.		Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
90.	Fabricated PVC-U Fittings for Potable Water Supplies	Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
91.		Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
92.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies	Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
93.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and resins		
94.	Injection Moulded PVC	Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
95.	Socket Fittings with Solvent Cement Joints for Water Supplies	Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
96.	Plastic and plastic products	Identification of Plastics	Simple Methods Identification of Plastics Dietrich Braun 5 <sup>th</sup> Edition Hanser Publication
97.	Rotational Moulded	Carbon Black Content	IS 2530:1963
98.	Polyethylene Water Storage	Carbon Black Dispersion	IS 2530:1963
99.	Tank	Overall migration test (Simulant -A)	IS 9845:1998
100.		K- Value	IS 4669:1968
101.		Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
102.	Unplasticized Polyvinyl Chloride	Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
103.	(PVC-U) Pipes for Soil and Waste Discharge System for Inside and Outside Buildings	Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
104.	Including Ventilation and Rain Water System	Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
105.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
106.		Resistance to dichloromethane	IS 12235(Pt-11):2004
107.		Resistance to Sulphuric Acid	IS 12235(Pt-7):2004
108.	Unplasticized PVC Pipes for Water Supplies	Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and resins		
109.	Unplasticized PVC Pipes for Water Supplies	Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
110.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
111.		Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
112.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
113.		K-Value	IS 4669:1968
114.		Sulphated Ash Content Test	IS 4985:2021
115.	UPVC Screen and Casing Pipes for Bore / Tube Well	Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
116.		Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
117.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
118.		Effect on Water (Tin content)	IS 4985:2021/IS 12235 P-4&10
119.		Effect on Water('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
120.		K-Value	IS 4669:1968
121.	Injection Moulded/Machined	Carbon black content	IS 2530:1963
122.		Carbon black content (for loading)	IS 2530:1963
123.		Ash content	IS 2530:1963

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic and resins</b>		
124.	Polyethylene Fittings for Water Supply	Carbon black dispersion	IS 2530:1963
125.		Overall migration test (Simulant -A)	IS 9845:1998
126.		Volatile Content	IS 4984:2016
127.		Oxidation induction time	IS 4984:2016
128.		Water Content	IS 4984:2016
129.	Fabricated polyethylene fittings for water supply	Carbon black content	IS 2530:1963
130.		Carbon black content (for loading)	IS 2530:1963
131.	Fabricated polyethylene fittings for water supply	Ash content	IS 2530:1963
132.		Carbon black dispersion	IS 2530:1963
133.		Overall migration test (Simulant -A)	IS 9845:1998
134.		Volatile Content	IS 4984:2016
135.		Oxidation induction time	IS 4984:2016
136.		Water Content	IS 4984:2016
137.	Polymers (PP, PVC, PE, PS, ABS, polyamide, PC, PMMA)	Melting Temperature By DSC	ASTM D3418: 2021
138.		Glass transition temperature	ASTM D3418: 2021
139.		Crystallization temperature	ASTM D3418: 2021
140.	Plastic container	Overall migration test (Simulant -A)	IS 9845:1998
141.	PVC Plastic Pipe and fitting	Titanium Dioxide Contents	IS 12235(Pt-12):2004
142.	Polymers (PP, PVC, PE, PS, ABS, Polyamide, PC)	Ash content	IS 12235(Pt-17):2004
143.		Ash content	ASTM D5630:2022
144.	PVC Resin	K- Value	IS 4669:1968
145.	Carbon black master batch	Carbon black content(loading)	IS 2530:1963
146.	PE and PP material	Carbon Black Content	IS 2530:1963

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and resins		
147.	PE and PP compound	Antioxidant (DNPd)	IS 2530:1963
148.	PE and PP material	Carbon Black Dispersion	IS 2530:1963
149.	CPVC Plastic pipe, fitting and resin	Chlorine content test	IS 15778:2007
150.	PVC Plastic pipe and fitting	Effect on Water (Lead content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-47
151.	PVC Plastic pipe and fitting	Effect on Water (Mercury content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-48
152.		Effect on Water (Cadmium content)	IS 4985:2021/IS 12235 P-4&10/IS 3025 PART-41
153.		Effect on Water (Tin content)	IS: 4985:2021/IS 12235 P4&10
154.		Effect on Water ('di-n-octyl-tin-s-s bis iso-octyl mercapto acetate' and 'butyl stearate' etc Content)	IS 4985:2021/IS 12235 P-4&10
155.	PE Compound	Toluene extract of carbon black	IS 12786:2024



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
1.	Chlorinated polyvinyl chloride (CPVC) Fittings for potable hot and cold-water distribution supplies	Classification of fittings	IS 17546:2021
2.		Colour	IS 17546:2021
3.		Density	IS 12235 (Part-14):2004
4.		Dimension of fitting (Socket length)	IS 17546:2021
5.		Dimension of fitting (Diameter)	IS 17546:2021
6.		Internal Hydrostatic Pressure Test at 20°C for 1 hr	IS 12235(Part 8/Sec 1):2004
7.		Verification of the malfunction Temp.	IS 15778:2007
8.		Internal Hydrostatic Pressure Test at 95°C for 1000 hrs	IS 12235(Part 8/Sec 1):2004
9.		Marking	IS 17546:2021
10.		Opacity	IS 12235(Part 3):2004
11.		Stress Relief Test	IS 12235 (Part 6):2004
12.		Thermal stability by hydrostatic pressure testing	IS 12235(Part 8)/Sec 1):2004
13.		Vicat Softening Temperature	IS 12235(Part 2):2004
14.		Visual Appearance	IS 17546:2021
15.		Wall Thickness	IS 17546:2021
16.		Classification of Pipe	IS 15778:2007
17.		Marking	IS 15778:2007
18.		Wall Thickness	IS 15778:2007

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
19.	Chlorinated polyvinyl chloride (CPVC) Fittings for potable hot and cold-water distribution supplies	Density	IS 12235 (Part 14):2004
20.		Diameter at any Point	IS 12235(Part 1):2004
21.		Flattening Test	IS 12235 (Part 19):2004
22.		Internal Hydrostatic Pressure Test	IS 12235 (Part 8)/Sec 1):2004
23.		Internal Hydrostatic Pressure Test at 95°C for 165 hrs	IS 12235 (Pt-8)/Sec-1:2004
24.		Length	IS 12235 (Pt-1):2004
25.		Ovality	IS 12235 (Pt-1):2004
26.		Mean outside Diameter	IS 12235 (Pt-1):2004
27.		Opacity	IS 12235 (Pt-3):2004
28.		Pipe Ends	IS 15778:2007
29.		Resistance to external below at 0°C	IS4985:2021
30.		Reversion Test	IS 12235(Pt-5):2004
31.		Tensile Strength	IS 12235(Pt-13):2004
32.		Thermal Stability by hydrostatic Pressure testing	IS 12235(Pt-8/Sec-1):2004
33.		Verification of the malfunction Temp.	IS 15778:2007
34.		Vicat Softening Temperature	IS 12235(Pt-2):2004
35.		Visual Appearance (Surface & Colour)	IS 15778:2007
36.	Chlorinated Polyvinyl Chloride Compounds Used for pipes and fittings	Vicat Softening Temperature	IS 12235(Pt-2):2004

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**Accurate Test Solutions LLP**

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Valid from: 05 September 2025

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
37.	Chlorinated Polyvinyl Chloride Compounds Used for pipes and fittings	Charpy Impact strength	IS 13360(Pt- 5/Sec-5):2017
38.		Tensile Modulus	IS 13360(Pt-5/Sec-1):2018
39.		Density	IS 13360(Part 3/See 10&11):2021
40.		Verification of the malfunction Temp.	IS 15778:2007
41.		Tensile Strength	IS 13360(Part 5/Sec 1):2021
42.	Conduit Systems for cable Management	Classification	IS 16205(Pt- 24):2017
43.		Marking	IS 16205(Pt-24):2017
44.		Bending Test	IS 16205 (Pt-24:2017)
45.		Compression Test	IS 16205 (Pt-1):2017
46.		Compression Test (Load taken)	IS 16205(Pt-24):2017
47.		Construction	IS 16205 (Pt-1):2017
48.		Degree of Protection ingress of foreign solid objective (IP 6X)	IS 16205 (Pt-1):2017
49.		Degree of protection ingress of foreign solid objective (IPX7)	IS 16205 (Pt-1):2017
50.		Dimension (OD & ID)	IS 16205 (Pt-1):2017
51.		Electromagnetic Compatibility	IS 16205 (Pt-1):2017
52.		Fire Hazard	IS 16205 (Pt-1):2017
53.		Glow Wire	IS 16205 (Pt-1):2017
54.		Impact Test	IS 16205 (Pt-1):2017
55.		Marking	IS 16205 (Pt-1):2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
56.	Conduits for electrical installations: General requirements	Bending Test	IS 9537 (Pt-3):1983
57.		Collapse Test	IS 9537(Part 3):1983
58.		Resistance to heat	IS 9537(Part 3):1983
59.		Resistance to burning	IS 9537 (Part.1):1980
60.		Construction	IS 9537 (Part.1):1980
61.		Dimension of socket	IS 9537 (Part 3):1983
62.		Dimension (Inside Dia)	IS 9537 (Part 3):1983
63.		Dimension (Outside Dia)	IS 9537 (Part 3):1983
64.		Electrical Characteristics	IS 9537 (Part.1):1980
65.		Impact Test	IS 9537 (Part.1):1980
66.		Insulation resistance	IS 9537 (Part 3):1983
67.		Marking	IS 9537 (Part 3):1983
68.		Uniformity of the Wall thickness	IS 9537 (Part 3):1983
69.		Length	IS 9537 (Part 3):1983
70.		Compression Test	IS 9537 (Part 3):1983
71.	Fabricated PVC-U fitting for potable water supplies	Dimension of socket	IS 10124 (Part-1):2009
72.		Dimension of socket	IS 10124 (Part-2):2009
73.		Dimension of socket	IS 10124 (Part-3):2009
74.		Dimension of socket	IS 10124 (Part-4):2009
75.		Dimension of socket	IS 10124 (Part 5):2009
76.		Dimension of socket & flanged	IS 10124 (Part 6):2009
77.		Dimension of socket & threaded adaptors	IS 10124 (Part 7):2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
78.	Fabricated PVC-U fitting for potable water supplies	Dimension of socket	IS 10124 (Part 8):2009
79.		Dimension of socket	IS 10124 (Part 9):2009
80.		Dimension of socket	IS 10124 (Part 10):2009
81.		Dimension of socket	IS 10124 (Part 11):2009
82.		Dimension of socket	IS 10124 (Part 12):2009
83.		Dimension of socket	IS 10124 (Part 13):2009
84.		Wall Thickness	IS 10124 (Part-1):2009
85.		Wall Thickness	IS 10124 (Part-2):2009
86.		Wall Thickness	IS 10124 (Part-3):2009
87.		Wall Thickness	IS 10124 (Part-4):2009
88.		Wall Thickness	IS 10124 (Part 5):2009
89.		Wall Thickness of socket & flanged	IS 4985:2021
90.		Wall Thickness of socket & threaded adaptors	IS 10124 (Part 7):2009
91.		Wall Thickness	IS 10124 (Part 8):2009
92.		Wall Thickness	IS 10124 (Part-9):2009
93.		Wall Thickness	IS 10124 (Part 10):2009
94.		Wall Thickness	IS 10124 (Part 11):2009
95.		Wall Thickness	IS 10124 (Part 12):2009
96.		Wall Thickness	IS 10124 (Part 13):2009
97.		Out of roundness	IS 10124 (Part 1):2009
98.		Length of socket	IS 10124 (Part 1):2009
99.		Dimension of Fitting (Solvent Cemented, Elastomeric Sealing Ring	IS 10124 (Part 1):2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
		Joint, Grooved Socket, Fabricated Socket)	
100.	Fabricated PVC-U fitting for potable water supplies	Marking	IS 10124 (Part1):2009
101.		Marking	IS 10124 (Part 2):2009
102.		Marking	IS 10124 (Part 3):2009
103.		Marking	IS 10124 (Part 4):2009
104.		Marking	IS 10124 (Part 5):2009
105.		Marking	IS 10124 (Part 6):2009
106.		Marking	IS 10124 (Part 7):2009
107.		Marking	IS 10124 (Part 8):2009
108.		Marking	IS 10124 (Part 9):2009
109.		Marking	IS 10124 (Part 10):2009
110.		Marking	IS 10124 (Part 11):2009
111.		Marking	IS 10124 (Part 12):2009
112.		Marking	IS 10124 (Part 13):2009
113.		Depth of engagement	IS 10124 (Part 1):2009
114.		Opacity	IS 10124 (Part 1) :2009
115.		Out of Roundness	IS 10124 (Part 1) :2009
116.		Short Term Hydraulic	IS 10124(Part 1):2009
117.	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agricultural Pumps	Loss in mass on heating	IS 15265:2003
118.		Bend radius	IS12656:2003
119.		Cold band radius	IS 15265:2003
120.		Construction	IS 15265:2003
121.		Dimension (ID, length)	IS 15265:2003

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
122.	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agricultural Pumps	Effect of sunlight	IS 15265:2003
123.		Hydrostatic burst	IS 15265:2003(Annex A)
124.		Hydrostatic Proof test	IS 15265:2003(Annex A)
125.		Length	IS 15265:2003
126.		Pressure Impulse	IS 15265:2003(Annex B)
127.		Reinforced Fracture test Annex D	IS 15265:2003
128.		Vacuum test	IS 15265:2003(Annex C)
129.	Irrigation Equipment Emitters	Emitter end	IS 13487:2024
130.		Marking	IS 13487:2024
131.		Classification	IS 13487:2024
132.		Construction and Workmanship	IS 13487:2024
133.		Determination of Emitter Exponent	IS 13487:2024
134.		Uniformity emission rates	IS 13487:2024
135.		Emission rate as function of inlet pressure	IS 13487:2024
136.		Resistance to Hydrostatic pressure	IS 13487:2024
137.		Emitter Pull Out Test	IS 13487:2024
138.	Irrigation Equipment Emitters	Flow path in emitter (Dimension of smallest flow path)	IS 13487:2024
139.	Irrigation Equipment Quick Coupled Polyethylene pipes and fittings for Sprinkler irrigation Systems	Classification of pipe	IS 17425:2020





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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
140.	Irrigation Equipment Quick Coupled Polyethylene pipes and fittings for Sprinkler irrigation Systems	Base Density	IS 7328:2020
141.		Base Density of raw material	IS 4984:2016
142.		Designation of coupler part	IS 17425:2020
143.		HDPE Male & female coupler	IS 17425:2020
144.		Change in Hardness (After Aging)	IS 17425:2020
145.		Dimension (Out Side Dia)	IS 17425:2020
146.		Dimension (ovality)	IS 17425:2020
147.		Dimension (Wall Thickness)	IS 17425:2020
148.		Dimension of Quick Coupled flanges	IS 17425:2020
149.		Dimension of Quick Coupled sprinkler saddles	IS 17425:2020
150.		Dimension of Quick Coupled pump connector	IS 17425:2020
151.		Dimension of Quick Coupled fitting (Diameter, wall thickness)	IS 17425:2020
152.		Fusion Compatibility	IS 17425:2020(Annex A)
153.		Holding Attachments for Coupler Parts	IS 17425:2020
154.		Hydraulic Characteristic (Quick coupled fittings)	IS 17425:2020(Annex A)
155.		Hydraulic Proof Test (Quick Coupled & Fitting)	IS 17425:2020
156.		Hydraulic Performance Characteristic (Plain PE Pipe)	IS 17425:2020(Annex A)
157.		Leakage Test	IS 17425:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
158.	Irrigation Equipment Quick Coupled Polyethylene pipes and fittings for Sprinkler irrigation Systems	Material (Rubber Ring)	IS 17425:2020
159.		Material Coupler Pipe	IS 17425:2020
160.		Melt Flow index of raw material	IS 4984:2020
161.		Melt Flow Rate	IS 2530:1963
162.		Minimum elongation at break in raw material	IS 17425:2020
163.		Minimum Tensile Strength in raw material	IS 17425:2020
164.		Reversion	IS 17425:2020
165.		Rubber Ring	IS 17425:2020
166.		Shore A Hardness (Rubber Ring)	IS 17425:2020
167.		Elongation	IS 17425:2020(Annex D)
168.		Tensile Strength at Yield	IS 17425:2020(Annex D)
169.		Thermal Stability	IS 17425:2020
170.		Visual appearance and workmanship	IS 17425:2020
171.		Volatile Matter of raw material	IS 4984:2016
172.		Weldability Test	IS 17425:2020
173.	PE Pipes for Sewerage and Industrial Chemicals and Effluent	Designation	IS 14333:2022
174.		Coiling	IS 14333:2022
175.		Colour	IS 4984:2016
176.		Density of raw material	IS 7328:2020
177.		Melt flow rate of raw material	IS 2530:1963
178.		Density	IS 7328:2020
179.		Diameter	IS 4984:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
180.	PE Pipes for Sewerage and Industrial Chemicals and Effluent	Internal Pressure, Creep Rupture Test (Type & acceptance)	IS 4984:2016(Annex E)
181.		Length	IS 14333:2022
182.		Melt flow rate	IS 2530:1963
183.		Out of squareness	IS 4984:2016
184.		Ovality	IS 4984:2016
185.		Reversion Test	IS 4984:2016
186.		Slow crack growth rate (Internal pressure Test for 500 hrs at 80°C	IS 4984:2016
187.		Tensile Strength at yield	IS 4984:2016(Annex H)
188.		Elongation at Break	IS 4984:2016 (Annex H)
189.		Tensile Strength for Butt-Fusion	IS 4984:2016
190.		Visual appearance	IS 14333:2022
191.		Wall Thickness	IS 4984:2016
192.	Plastic Materials & products	Tensile Strength at Break	IS 13360(Part 5/Sec1):2021
193.	Plastics Piping systems for water supply and for drainage and sewerage under pressure	Coiling	ISO 4427 P-2:2019
194.		Color	ISO 4427 P-2:2019
195.		Compound Density	ISO 1183-1 :2019
196.		Decohesion of an electrofusion Joint	ISO 13954:1997
197.		Elongation at break	ISO 6259 P-1 & 3:2015
198.		Hydraulic characteristic (Type Test Acceptance Test)	ISO 1167 (Part 1):2006

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
199.	Plastics Piping systems for water supply and for drainage and sewerage under pressure	Hydraulic characteristic (Type Test Acceptance Test)	ISO 1167(Part 2):2006
200.		Hydraulic Characteristic (Type Test, Acceptance Test)	ISO 4427 P-2:2019
201.		Length	ISO 4427:2019
202.		Longitudinal Reversion	ISO 2505:2023
203.		Diameter & thickness	ISO 3126:2005
204.		Melt flow rate of raw material	ISO 1133-1 :2022
205.		Melt Flow rate	ISO 1133-1:2022
206.		Ovality	ISO 4427(Part 2):2019
207.		Pigment Dispersion	ISO 18553:2002
208.		Resistance to slow crack growth	ISO 13479:2022
209.		Resistance to Weathering	ISO 16871:2003
210.		Tensile Strength for butt-fusion	ISO 13953:1999
211.		Classification & Designation	ISO 4427(Pt-2):2019
212.		Visual Appearance	ISO 4427(Pt-2):2019
213.		Wall Thickness	ISO 4427(Pt-2):2019
214.		Water Content	ISO 15512:2019
215.	Polyethylene Pipes for irrigation Lateral	Classification	IS 12786:2024
216.		Elongation at Break	IS 12786:2024
217.		Environmental stress cracking	12786:2024(Annex D)
218.		Hydraulic Test (Quality Test Acceptance Test)	12786:2024(Annex C)
219.		Dimension wall thickness	IS 12786:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
220.	Polyethylene Pipes for irrigation Lateral	Reversion Test	IS 12786:2024
221.		Tensile Strength at Break	IS 12786:2024
222.		Visual appearance	IS 12786:2024
223.		Dimension outside diameter	IS 12786:2024
224.	Polyethylene Pipes for the Supply of Gaseous Fuels	Base Density	IS 7328:2020
225.		Base Density of raw material	IS 7328:2020
226.		Thermal Stability to Oxidation	IS 4984:2016
227.		Colour of Pipe	IS 14885:2022
228.		Designation	IS 14885:2022
229.		Effect of Gas constituents on the hydrostatic strength	IS 4984:2016
230.		Finish	IS 14885:2022
231.		Length of Pipe	IS 14885:2022
232.		Hydraulic characteristics – (Type Test, Acceptance Test)	IS 4984:2016
233.		Melt flow rate of raw material	IS 2530:1963
234.		MFI at 5 kg at 190°C	IS 2530:1963
235.	Polyethylene Pipes for the Supply of Gaseous Fuels	Outside diameter.	IS 14885:2022
236.		Ovality	IS 14885:2022
237.		Pigment Dispersion	IS 14885:2022(Annex A)
238.		Resistance to Weathering	IS 14885:2022(Annex B)
239.		Resistance to Weathering	IS 14885:2022
240.		Reversion Test	IS 4984:2016(Annex F)
241.		Slow Crack Growth Rate Test	IS 4984 :2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
242.	Polyethylene Pipes for the Supply of Gaseous Fuels	Squeeze Off	IS 14885:2022(Annex C)
243.		Tensile Strength at yield	IS 4984 :2016
244.		Elongation at break	IS 4984 :2016
245.		Volatile loss / Volatile content	IS 4984:2016(Annex C)
246.		Wall Thickness	IS 14885:2022
247.	Rotational Moulded Polyethylene Water Storage Tank	Antioxidant	IS 12701:1996
248.		Construction	IS 12701:1996
249.		Density of raw material	IS 12701 :1996
250.		Wall Thickness of lids	IS 12701:1996
251.		Internal Diameter of Manhole	IS 12701:1996
252.		Net & Gross Capacity	IS 12701:1996
253.		Overall Diameter	IS 12701:1996
254.		Overall, Height	IS 12701:1996
255.		Wall Thickness	IS 12701:1996
256.		Weight of Tank	IS 12701:1996
257.		Flexural Modulus	IS 13360(Part 5/Sec 7):2022
258.		Melt Flow index	IS 12701:1996
259.		Melt Flow index of raw material	IS 2530:1963
260.		Resistance to Deformation	IS 12701:1996
261.		Resistance to Impact	IS 12701:1996
262.		Tensile Strength	IS 13360(Part 5/Sec 2):2017
263.		Test for top load Resistance	IS 12701:1996
264.		Finish	IS 12701:2016
265.		Visual inspection for flat area	IS 12701:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic and plastic products</b>		
266.	Rotational Moulded Polyethylene Water Storage Tank	Wide band painted around the tank	IS 12701:2016
267.		Melt flow rate	IS 2530:1963
268.		Density (Raw material)	IS 7328:2020
269.		Density (Raw Material)	IS 7328:2020
270.	Specification for injection moulded PVC socket fitting with solvent cement joints for water supplies	Laying length	IS 7834(Pt-2):1987
271.		Laying length	IS 7834(Pt-3):1987
272.		Laying length	IS 7834(Pt-4):1987
273.		Laying length	IS 7834(Pt-5):1987
274.		Laying length	IS 7834(Pt-6):1987
275.		Laying length	IS 7834(Pt-7):1987
276.		Diameter	IS 7834(Pt-8):1987
277.		Dimension of Fitting (diameter, socket length,)	IS 7834(Pt-1):1987
278.	Specification for injection moulded PVC socket fitting with solvent cement joints for water supplies	Tapper angle	IS 7834(Pt-1):1987
279.		Opacity Test	IS 7834(Pt-1):1987
280.		Ovality (Max. out of roundness)/ Squareness	IS 7834(Pt-1):1987
281.		Short Term Hydraulic	IS 7834(Pt-1):1987
282.		Stress Relief Test	IS 7834(Pt-1):1987
283.		Thickness	IS 7834(Pt-1):1987



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
284.	Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings including Ventilation and Rain Water System	Axial Shrinkage	IS 13592:2013
285.		Colour	IS 13592:2013
286.		Wall thickness	IS 12235 (Part 1):2004
287.		Diameter	IS 12235(Part 1):2004
288.		Dimension of Socket (diameter, socket depth, thickness, length)	IS 13592:2013
289.		Effect of sunlight	IS 13592:2013
290.		Effect of sunlight	IS 12235 (Part 13):2004
291.		Length	IS 13592:2018
292.		Marking	IS 13592:2013
293.		Resistance to external below at 0°C	IS 12235(Part 9):2004
294.		Reversion test	IS 12235 (Part 5):2004
295.		Stress relief test	IS 12235(Part 6):2004
296.		Tensile Strength before and after exposure to sunlight	IS 12235 (Part 13):2004
297.		Vicat Softening Temperature	IS 12235(Part 2):2004
298.		Visual Appearance/ Workmanship and Finish	IS 13592:2013
299.		Water tightness of joint	IS 13592:2013
300.		Impact Strength	IS 12235(Part 9):2004
301.		Tapper angle	IS 14735:1999
302.		Chamfer	IS 14735:1999
303.		Sealing ring hardness	IS 14735:1999

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## Centre for International Accreditation

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Scope of Accreditation

**Accurate Test Solutions LLP**

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QAI/CIA/TL/2025/0136

Valid from: 05 September 2025

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
304.	Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings including Ventilation and Rain Water System	Sealing ring	IS 14735:1999
305.		Water tightness of Joints	IS 14735 :1999(Annex D)
306.		Type of Fitting	IS 14735:1999
307.		Colour of Fitting	IS 14735:1999
308.		Design Requirement	IS 14735:1999
309.		Impact Test	IS 14735 :1999(Annex C)
310.		Manufacture	IS 14735:1999
311.		Diameter of spigot	IS 14735:1999
312.		Socket and spigot configuration	IS 14735:1999
313.		Socket Dimension (Depth, diameter, length, width)	IS 14735:1999
314.		Vicat Softening Temperature (VST)	IS 12235(Part 2):2004
315.		Visual Appearance	IS 14735:1999
316.		Water tightness of Joints	IS 14735:1999(Annex D)
317.		Workmanship	IS 14735:1999
318.		Socket Dimension (pipe clips diameter & distance)	IS 14735:1999
319.		Socket & spigot Dimension (Nahanni trap depth, diameter, distance, wall thickness)	IS 14735:1999
320.		Socket Dimension (vent cowl socket depth & wall thickness)	IS 14735:1999
321.		Socket Dimension (access opening diameter)	IS 14735:1999
322.		Wall Thickness	IS 14735:1999

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic and plastic products</b>		
323.	Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings including Ventilation and Rain Water System	Stress Relief Test	IS 12235 (Part 6):2004
324.		Vicat Softening Point	IS 6307:2023
325.		Vicat Softening Point	IS 14735:1999
326.	Irrigation Equipment - Emitting Pipe Systems	Inside Diameter	IS 13488:2008
327.		Dimension of wall thickness	IS 13488:2008
328.		Fittings	IS 13488:2008
329.		Resistance to hydro static Pressure	IS 13488:2008
330.		Resistance to Pull Out of Joints Between Fitting and Emitting	IS 13488:2008
331.		Spacing of emitter units	IS 13488:2008
332.		Classification	IS 13488:2008
333.		Designation	IS 13488:2008
334.		Emission rate of functional of Inlet Pressure	IS 13488:2008
335.		Emitting Unit Exponent	IS 13488:2008
336.		Flow Path in emitter (Dimension of Smallest flow path)	IS 13488:2008
337.		Material	IS 13488:2008
338.		Resistance to Hydro static Pressure at Elevated Temperature	IS 13488:2008
339.		Resistance to tension at elevated temperature	IS 13488:2008

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
340.	Polyethylene Pipes for Water Supplies	Designation	IS 4984:2016
341.		Blue Strip	IS 4984:2016
342.		Width of Strip	IS 4984:2016
343.		Base density of raw material	IS 7328:2020
344.		Base density	IS 7328:2020
345.		Diameter	IS 4984:2016
346.		Internal Pressure, Creep Rupture Test (Type & Acceptance)	IS 4984:2016
347.		Length	IS 4984:2016
348.		Melt flow rate of raw material	IS 2530:1963
349.		MFI at 5 kg at 190°C	IS 2530:1963
350.		Ovality	IS 4984:2016
351.		Slow Crack growth Rate test	IS 4984:2016
352.		Reversion Test	IS 4984:2016
353.		Tensile Strength for Butt-Fusion	IS 4984:2016
354.		Tensile Strength at yield	IS 4984:2016 (Annex H)
355.		Tensile Strength & Elongation at Break	IS 4984:2016 (Annex H)
356.		Coiling	IS 4984:2016
357.		Colour	IS 4984:2016
358.		Depth of Blue Stripes	IS 4984:2016
359.		Identification of Strips	IS 4984:2016
360.		Visual appearance	IS 4984:2016
361.		Wall Thickness	IS 4984:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
362.	Poly propylene random Copolymer Pipes for Hot and Cold-Water Supplies	Designation	IS 15801:2008
363.		Colour	IS 15801:2008
364.		Density of raw material	IS 13360(Part 3/Sec 10 &11):2021
365.		Density	IS 12235(Part-14):2004
366.		Impact Strength	IS 15801:2008
367.		Dimension (Outside Diameter)	IS 15801:2008
368.		Dimension of Pipe (Length of Straight Pipe)	IS 15801:2008
369.		Melt Flow index of raw material	IS 13360(Part 4/Sec 1:2000
370.		Impact Strength	IS 13360(Part 5/Sec 5):2017
371.		Dimension of Pipe (Ovality)	IS 15801:2008
372.		Dimension of Pipe (Wall Thickness)	IS 15801:2008
373.		Fusion Compatibility at 95°C for 165 hr	IS 12235(Part 8/Sec 1):2004
374.		Thermal stability	IS 12235(Part 8/Sec 1):2004
375.		Hydraulic Characteristic (Internal Creep Rupture test at 20°C for 1 hr)	IS 12235(Part 8/Sec 1):2004
376.		Hydraulic Characteristic (Internal Creep Rupture test at 95°C for 22hr)	IS 12235(Part 8/Sec 1):2004
377.		Hydraulic Characteristic (Internal Creep Rupture Test at 110°C for 8760 hr	IS 12235(Part 8/Sec 1):2004
378.		Hydraulic Characteristic (Internal Creep Rupture Test at 95°C for 1000 hr	IS 12235(Part 8/Sec 1):2004
379.		Hydraulic Characteristic (internal Creep Rupture Test at 95°C for 165 hr.	IS 12235(Part 8/Sec 1):2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
380.	Poly propylene random Copolymer Pipes for Hot and Cold-Water Supplies	Impact Strength	IS 15801:2008
381.		Melt Flow Rate	IS 13360(Part 4)/Sec 1):2000
382.		Opacity	IS 12235 (Part 3):2004
383.		Reversion Test	IS 12235 (Part 5)/Sec 1&2:2004
384.		Visual Appearance	IS 15801:2008
385.	(PVC-U) Pipes for use in underground Drainage and Sewerage Systems - Specification as per IS 15328: 2003	Appearance	IS 15328:2003
386.		Dimension of pipe (Diameter, wall thickness, length)	IS 12235 (Part 1):2004
387.		Elastomeric Sealing Ring Joint (Internal Hydrostatic Pressure)	IS15328: 2003(Annex D)
388.		Length of the pipe	IS 15328:2003
389.		Longitudinal Reversion	IS 12235 (Part 5):2004
390.		Diameter	IS 15328:2003
391.		Resistance to internal hydrostatic pressure	IS 15328:2003
392.		Resistance to internal hydrostatic pressure	IS 12235 (Part-8):2004
393.		Ring Stiffness	IS 15328:2003
394.		Vicat Softening Temperature	IS 15328:2003
395.		Dimension of Socket & Spigot	IS 12235(Pt-1):2004
396.		Wall Thickness	IS 15328:2003
397.		Colour	IS 15328:2003
398.		Dimension of rubber ring type sockets and Spigot Ends (diameter, length, width, depth, thickness)	IS 15328:2003

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
399.	(PVC-U) Pipes for use in underground Drainage and Sewerage Systems - Specification as per IS 15328:2003	Dimension of solvent type sockets and Spigot Ends (Diameter, length, width, depth, thickness)	IS 15328:2003
400.		Elastomeric Sealing Ring Joint (Internal Negative Hydrostatic Pressure Internal Vacuum)	IS 15328:2003(Annex E)
401.		Solvent cemented Joint (Internal Hydrostatic Pressure)	IS 15328:2003
402.		Solvent Cemented Joint (Internal Negative Hydrostatic Pressure Internal Vacuum)	IS 15328:2003
403.		Resistance internal hydrostatic Pressure (Type test at 60°C for 1000 hr)	IS 12235(Part 8):2004
404.		Resistance to internal hydrostatic pressure (a) acceptance test at 27°C for 1 hr	IS 12235(Part 8):2004
405.		Resistance to external blows at 0°C	IS 15328:2003
406.		Solvent Cemented Joint (Internal Hydrostatic Pressure)	IS 15328:2003
407.	UPVC Pipes for Water Supplies	Classification	IS 4985:2021
408.		Colour	IS 4985:2021
409.		Internal Hydrostatic Pressure Test (Type & Acceptance)	IS 12235(Part 8/Sec 1&4):2004
410.		Pipe Ends	IS 4985:2021
411.		Resistance to external blow at 0°C	IS 4985:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
412.	UPVC Pipes for Water Supplies	Density	IS 12235(Part 14):2004
413.		Length	IS 12235(Part 1):2004
414.		Opacity test	IS 12235(Part 3):2004
415.		Sealing rings	IS 4985:2021
416.		Socket ID/OD (mouth/root)	IS 4985:2021
417.		Vicat softening	IS 12235(Part 2):2004
418.		Reversion Test	IS 12235(Part 5/Sec 1&2):2004
419.		Visual appearance	IS 4985:2021
420.		Diameter	IS 12235(Part 1):2004
421.		Dimension of Socket (diameter, socket depth, thickness, length)	IS 4985:2021
422.		Wall Thickness	IS 12235(Part 1):2004
423.		Chamfer	IS 4985:2021
424.		Marking	IS 4985:2021
425.		Sealing Ring Hardness	IS 12818:2010
426.		Density	IS 12235(Part 14):2004
427.	UPVC Screen and Casing Pipes for Bore / Tubewell	Dimension of Socket & spigot (effective & segmental length, diameter, depth)	IS 12818:2010
428.		Length	IS 12818:2010
429.		Diameter (OD&ID)	IS 12235(Part 1):2016
430.		Resistance to external below at 0°C	IS 12235(Part 9):2004
431.		Designation	IS 12818:2016
432.		Visual appearance	IS 12818:2016
433.		Wall thickness	IS 12235(Part 1):2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
434.	UPVC Screen and Casing Pipes for Bore / Tubewell	Resistance to External Blow	IS 12235(Part 9):2004
435.		Height of Rib	IS 12235(Part 1):2004
436.		Vicat softening	IS 12235(Part 2):2004
437.		Tensile Strength	IS 12235(Part 13):2004
438.		Colour	IS 12818:2010
439.		Dimension of Rib, Slots	IS 12818:2010
440.		Dimension of Sealing elements (diameter, height, width)	IS 12818:2010
441.		Test for Internal Dia	IS 12818:2010
442.		Dimension of Screen and Casing Pipes thread	IS 12818:2010
443.		Dimension of Screen and Casing Pipes thread	IS 554:1999
444.		Density	ASTMD 792:2020
445.	Plastic and plastic products	Density	IS 12235(Part 14):2004
446.		Density	IS 13360(Part 3/Sec 10&11):2021
447.		Density	ISO 845:2006
448.		Melt Flow index	ASTMD 1238:2023
449.		Melt Flow index	IS 13360(Part 4)/Sec 1):2000
450.		Melt Flow index	IS 2530:1963
451.		Elongation	ASTMD 638 :2022
452.		Elongation	IS 12235 P-13:2004
453.		Elongation	IS 13360(Part 5/Sec 2):2017
454.		Tensile modulus	ASTMD 638 :2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
455.	Plastic and plastic products	Tensile modulus	IS 12235 P-13:2004
456.		Tensile modulus	IS 13360(Part 5/Sec 2):2017
457.		Tensile Strength	ASTMD 638 :2022
458.		Tensile Strength	IS 12235(Part-13):2004
459.		Tensile Strength	IS 13360(Part-5/Sec 2):2017
460.		Flexural Modulus	ASTMD 790:2022
461.		Flexural Modulus	IS 13360(Part-5/Sec-7):2022
462.		Flexural Strength	ASTMD 790:2022
463.		Flexural Strength	IS 13360(Part-5/Sec-7):2022
464.		Compressive strength	ASTMD 695:2023
465.		Hardness	ASTMD 2240:2015
466.		VST Test	ASTMD 1525:2017
467.		HDT Test	ASTMD 648:2018
468.		IZOD Impact Test	ASTMD 256:2023
469.		Charpy Impact Test	ASTMD 6110:2018
470.	Injection Moulded/Machined Polyethylene Fittings for Water Supply	Designation	IS 8008:2022
471.		Weld Lengths	IS 8008:2022
472.		Base density of raw material	IS 7328:2020
473.		Base density	IS 7328:2020
474.		Dimensions for Bends	IS 8008:2022
475.		Dimensions for Tee	IS 8008:2022
476.		Dimensions for Reducers	IS 8008:2022
477.		Dimensions for Ferrule Reducers	IS 8008:2022
478.		Dimensions for Pipe End	IS 8008:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
479.	Injection Moulded/Machined Polyethylene Fittings for Water Supply	Dimensions for Sandwich Flanges	IS 8008:2022
480.		Dimensions of Injection Moulded End Cap	IS 8008:2022
481.		Dimensions of Machine Moulded End Cap	IS 8008:2022
482.		Dimensions of Reducing Tee	IS 8008:2022
483.		Diameter	IS 4984:2016
484.		Internal Pressure, Creep Rupture Test (Type & Acceptance)	IS 4984:2016
485.		Laying Length	IS 8008:2022
486.		Melt flow rate of raw material	IS 2530:1963
487.		Melt flow rate	IS 2530:1963
488.		Ovality	IS 4984:2016
489.		Colour	IS 4984:2016
490.		Visual appearance	IS 8008:2022
491.		Wall Thickness	IS 4984:2016
492.	Fabricated polyethylene fittings for water supply	Designation	IS 8360:2022
493.		WELD LENGTHS	IS 8360:2022
494.		Base density of raw material	IS 7328:2020
495.		Base density	IS 7328:2020
496.		Dimensions for Fabricated Bends	IS 8360:2022
497.		Dimensions for Fabricated Tees	IS 8360:2022
498.		Dimensions of Reducing Tee	IS 8360:2022
499.		Diameter	IS 4984:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
500.	Fabricated polyethylene fittings for water supply	Internal Pressure, Creep Rupture Test (Type & Acceptance)	IS 4984:2016
501.		Laying Length	IS 8360:2022
502.		Melt flow rate of raw material	IS 2530:1963
503.		Melt flow rate	IS 2530:1963
504.		Ovality	IS 4984:2016
505.		Colour	IS 4984:2016
506.		Visual appearance	IS 8360:2022
507.		Wall Thickness	IS 4984:2016
508.		Tensile Strength for Butt-Fusion	IS 4984:2016
509.	Irrigation equipment - Hydro cyclone filters	Material	IS 14743:2024
510.		Construction	IS 14743:2024
511.		Cyclonic Vessel	IS 14743:2024
512.		Connection	IS 14743:2024
513.		Resistance of filter to internal hydraulic pressure	IS 14743:2024
514.		Resistance to Internal Hydrostatic Pressure at Elevated Temperatures	IS 14743:2024
515.		Pressure Drop Versus Flow (Clean pressure drop)	IS 14743:2024
516.		Cyclic Pressure Test	IS 14743:2024
517.		General	IS 12785:1994
518.		Strainer housing	IS 12785:1994
519.		Resistance of strainer element to buckling or tearing	IS 12785:1994

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and plastic products		
520.	Irrigation equipment - Hydro cyclone filters	Connection	IS 12785:1994
521.		Resistance of filter to internal hydraulic pressure	IS 12785:1994
522.		Resistance to Internal Hydrostatic Pressure at High Temperatures	IS 12785:1994
523.		Clean Pressure Drop	IS 12785:1994
524.		Tightness of strainer element	IS 12785:1994

