

# Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



## Certificate of Accreditation

### **ARDM Labs Private Limited**

A-80, II Floor, G.T. Karnal Road Industrial Area,  
Azadpur, Delhi-110033, 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/2023/0011**

(Date of First Accreditation: 27 May 2023 - 26 May 2025)

Valid from: 10 July 2025

Valid until: 09 July 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
	<b>Plastic &amp; Resins</b>		
1.	UPVC Injection Moulded fittings for Soil and Waste discharge System for Inside and Outside Buildings including Ventilation and Rain Water System	Effect on water	IS:4985: 2021
2.	Chlorinated Polyvinyl Chloride (CPVC) Fittings for Potable Hot and Cold-Water Distribution Supplies	Chlorine content	IS 15778: 2007
3.		Effect on Water	IS 4985: 2021
4.		Chlorine content	IS 15778: 2007
5.		Effect on Water	IS:4985: 2021
6.	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agriculture Pumps	Effect on water	IS 4985: 2021
7.	High Density Polyethylene Films	Carbon Black Content	IS:2530: 1963
8.		Carbon Black Dispersion	IS:2530: 1963
9.	Polyethylene Pipes for Sewerage and industrial chemical and effluent	Carbon black content	IS:2530: 1963
10.		Carbon black dispersion	IS:2530: 1963

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	<b>Plastic &amp; Resins</b>		
11.		Carbon black loading	IS 14333: 2022
12.		Oxidation induction time	IS:4984: 2016
13.		Volatile content	IS:4984: 2016
14.		Water content	IS:4984: 2016
15.	Irrigation Equipment - Emitting Pipe Systems	Volatile content	IS:12786: 2024
16.		Carbon Black Content	IS:2530: 1963
17.		Antioxidant	IS:12786: 2024
18.		Carbon Black Dispersion	IS:2530: 1963
19.		Susceptibility to Environmental Stress Cracking	IS:12786: 2024
20.		Toluene extract	IS:12786: 2024
21.	Irrigation Equipment - Polyethylene Pipes for Irrigation Laterals	Volatile content	IS:12786: 2024
22.		Carbon Black Dispersion	IS:2530: 1963
23.		Antioxidant	IS:12786: 2024
24.		Carbon Black Content	IS:2530: 1963

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	<b>Plastic &amp; Resins</b>		
25.		Susceptibility to Environmental Stress Cracking	IS:12786: 2024
26.		Toluene extract	IS:12786: 2024
27.	Irrigation Equipment Emitting Pipe Systems	Identification of material	ASTM E 1252: 2013
28.	Irrigation Equipment Quick Coupled Polyethylene pipes and fittings for Sprinkler irrigation Systems	Holding Attachments for Coupler Parts	IS 17425: 2020
29.	Permanently Lubricated HDPE Telecom Ducts for Use as Underground Optical Fibre Cable Conduits	Ash content	TEC/GR/FA/CDS-008/04/AUG-19: 2019
30.		Environmental Stress Crack Resistance	ASTM D 1693: 2015
31.		OIT	TEC/GR/FA/CDS-008/04/AUG-19: 2019
32.		UV Stabiliser Content	ASTM E 1252: 2013
33.	Plastics piping systems for water supply and for drainage and sewerage under pressure - Polyethylene (PE)	Carbon Black Content	ISO 6964: 2019
34.	Plastics piping systems for water supply and for	Carbon Black Dispersion	ISO 18553: 2002

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Resins</b>		
35.	drainage and sewerage under pressure — Polyethylene (PE)	Pigment dispersion	ISO 18553: 2002
36.		Thermal stability	ISO 11357-6: 2018
37.		Volatile content	EN 12099: 1997
38.		Water content	ISO 15512: 2014
39.	Polyethylene Films and Sheets	Carbon Black Content	IS:2508: 2024
40.		Ash content	IS:2508: 2024
41.		Carbon Black Dispersion	IS:2530: 1963
42.	Polyethylene Pipes for the Supply of Gaseous Fuels	Volatile content	IS:4984: 2016
43.		Anti-Oxidant	IS 2530: 1963
44.		Oxidation Induction Time	IS:4984: 2016
45.		Pigment dispersion	IS 14885: 2022
46.		U.V. Stabilizer	ASTME 1252: 2013
47.		Water content	IS:4984: 2016
48.	Polyethylene Pipes for Water Supply	Carbon black content	IS:2530: 1963
49.		Carbon black dispersion	IS:2530: 1963
50.		Oxidation induction time	IS:4984: 2016
51.		Water Content	IS:4984: 2016

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Resins</b>		
52.	Polypropylene-Random Copolymer Pipes for Hot and Cold-Water Supplies	Anti-oxidant	IS 15801: 2008
53.		Carbon black content	IS:2530: 1963
54.		Carbon black dispersion	IS:2530: 1963
55.		Influence on water intended for human consumption	IS 9845: 1998
56.		Presence of UV stabilizer	ASTME1252: 2013
57.		Irrigation Equipment- quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Carbon Black Content
58.	Antioxidant		IS:17425: 2020
59.	Ash content		IS:17425: 2020
60.	Carbon black dispersion		IS:2530: 1963
61.	Rubber identification		IS:17425: 2020
62.	Thermal stability		IS:4984: 2016
63.	Volatile Matter		IS:4984: 2016
64.	Water content		IS:4984: 2016
65.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage	Chlorine content	IS 15778: 2007
66.		Resistance to dichloromethane	IS 12235 (Part-11): 2004

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	<b>Plastic &amp; Resins</b>		
67.		Effect on Water	IS 4985: 2021
68.		Thermal stability (oxidation induction test, OIT)	IS 16098 (Part-2): 2013
69.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage and Sewerage Systems	Effect on Water	IS 4985: 2021
70.	Unplasticized PVC Pipes for Water Supplies	Effect on Water	IS:12235 (Part-10): 2004
71.		Effect on Water	IS:12235 (Part 4): 2004
72.	Unplasticized PVC Pipes for Water Supplies	Other toxic substances	IS:12235 (Part 10): 2004
73.	UPVC Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings including Ventilation and Rain Water System	Effect on water	IS:4985: 2021
74.		Resistance to Sulphuric Acid	IS:12235 (Part-7): 2004
75.		Sulphated Ash Content	IS:14735, Amd 4: 1999
76.		Titanium Dioxide Content	IS:14735, Amd 4: 1999
77.	Fabricated PVC-U Fittings for Potable Water Supplies	Effect on Water	IS:4985: 2021
78.		Effect on Water	IS:12235 (Part-4): 2004

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Resins</b>		
79.	Injection Moulded PVC Socket Fittings with Solvent	Effect on Water	IS:4985: 2021
80.	Cement Joints for Water Supplies	Effect on Water	IS:4985: 2021
81.	Polyethylene Pipes for Water Supply	Overall migration test	IS:9845: 1998
82.		Overall migration test	IS 9845: 1998
83.		Volatile Matter	IS:4984, Amd.1&2: 2016
84.	Rotational Moulded Polyethylene Water Storage Tank	Carbon Black Content	IS:2530: 1963
85.		Carbon Black Dispersion	IS:2530: 1963
86.		Overall Migration Test	IS:9845: 1998
87.	Unplasticized Polyvinyl Chloride (PVC-U) Pipes for Soil and Waste Discharge System for Inside and Outside Buildings Including Ventilation and Rain Water System	K- Value	IS:4669: 1968
88.		Effect on water	IS:12235 Pt-4: 2004
89.		Effect on water	IS:4985: 2021
90.		Resistance to dichloromethane	IS 12235 PART 11: 2004
91.		Resistance to Sulphuric Acid	IS:12235 (Part-7): 2004
92.	Unplasticized PVC Pipes for Water Supplies	Effect on Water	IS:12235 (Part-4): 2004
93.		K-Value	IS:4669, Amd 1: 1968
94.		Sulphated Ash Content Test	IS:4985: 2021

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Resins</b>		
95.		Vinyl Chloride Monomer (VCM)	IS:10151, Amd 4: 1982
96.		Effect on Water	IS:12235 (Part 10): 2004
97.	UPVC Screen and Casing	Effect on Water	IS:4985: 2021
98.	Pipes for Bore / Tube Well	K-Value	IS:4669, Amd 1: 1968
99.		Vinyl Chloride Monomer content	IS:10151, Amd 4: 1982



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Textile</b>		
1.	High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Packaging 10 kg, 15 kg, 20 kg, 25 kg and 30 kg Food grains	Presence of UV stabilizer	ASTME 1252: 2013
2.	High Density Polyethylene (HDPE)/Polypropylene (PP)	Presence of UV stabilizer	ASTM E 1252: 2013
3.	Woven Sacks for Packaging 50 kg/25 kg Sugar	Ash content	IS 14968: 2015
4.	High Density Polyethylene (HDPE) / Polypropylene	Presence of UV stabilizer	ASTME1252: 2013
5.	(PP) Woven Sacks for Packaging of 50 kg Food Grains	Ash content	IS 14887: 2014
6.	Textile-High Density Polyethylene (HDPE)/ Polypropylene (PP) Woven Sacks for Packaging 10 kg, 15 kg, 20 kg, 25 kg and 30 kg Food grains	Ash content	IS 16208: 2015

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Textile Materials</b>		
1.	Polyethylene (HDPE) Polypropylene (PP) woven sacks for packaging of 50 kg Food Grains	Mass	IS:1964: 2001
2.	Textiles High Density Polyethylene (HDPE) Polypropylene (PP) woven sacks for packaging of 50 kg Food Grains	Breaking strength of Bottom Seam	IS:9030: 2024
3.		Dimension	IS:14887: 2014 Annex-B-B1
4.		Elongation at break	IS:1969 (Part-1): 2018
5.		Ends/dm	IS:14887: 2014 Annex-B-B2
6.		Mouth (Hemming)	IS:14887: 2014 Cl.3.3.2
7.		Breaking Strength	IS:1969 (Part 1): 2018
8.		Identification	ASTME 1252: 2013
9.		Linear Density	IS:6192: 2023
10.		Linear Density	IS:11197: 1985
11.		Linear Density	IS14887: 2014
12.		Tape Width	IS:6192: 2023
13.		Tape Width	IS:11197: 1985
14.		Tenacity	IS:6192: 2023
15.		Thickness	IS:6192: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Textile Materials</b>		
16.		Width of Tape	IS:14887: 2014
17.		Width of Tape	IS:6192: 2023
18.		Average Breaking Strength of Fabric, N a) Length Wise	IS:1969 (Part 1): 2018
19.		Average Breaking Strength of Fabric, N b) Width Wise	IS 1969 (Part 1): 2018
20.		Bottom Seam	IS:10789: 2000
21.	Textiles-High Density Polyethylene (HDPE)/Polypropylene 10kg,15kg, 20kg, 25kg and 30kg Food Grains	Breaking Strength of Fabric after exposure to UV radiation and Weathering	IS:16208 (Annex C) + A 2: 2015
22.		Capacity	IS:16208+ A2: 2015
23.		Dimension in cm (a) Inside Length	IS:16208 + A 2: 2015
24.		Dimension in cm b) Inside Width	IS 16208 + A 2: 2015
25.		Elongation of break of the fabric, % a) Length Wise b) Width Wise	IS 1969 (Part 1): 2018
26.		Ends/per dm	IS 16208 (Annex. B) + A 2: 2015
27.		Fabric (tape Width)	IS 6192: 2023
28.		Mass of Sack	IS:1964: 2001

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Textile Materials</b>		
29.	Textiles-High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks For packing 50kg Food Grains	Minimum Breaking Strength of Bottom Seam, N	IS 9030: 2024
30.		Mouth (Hemming)	IS 16208 + A 2: 2015
31.		Picks/dm	IS 16208 (Annex. B) + A 2: 2015
32.		Identification of Material	IS 16208 + A 2: 2015
33.	Textiles-High Density Polyethylene/Polypropylene (PP) Woven Sacks For packing 50kg Food Grains	identification	ASTM E 1252: 1998
34.		Linear Density	IS 11197: 1985
35.		Linear Density	IS 6192: 2023
36.		Linear Density	IS:6192: 2023
37.		Tape Width	IS:11197: 1985
38.		Tenacity	IS:6192: 2023
39.		Thickness	IS:6192: 2023
40.		Width	IS:6192: 2023
41.		Width of Tape	IS 6192: 2023
42.		Width of Tape	IS 11197: 1985
43.		Picks/Dm	IS:14887: 2014
44.		Sacks Bottom Seam	IS:14887: 2014

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Textile Materials</b>		
45.	Textiles -High Density Polyethylene (HDPE) /Polypropylene (PP) Woven Sacks for Packing 50 Kg/25 Kg Sugar	Exposure to UV radiation and weathering / UV Resistance	IS 14968: 2015
46.		Minimum breaking strength of bottom seam	IS 9030: 2024
47.		Fabric (tape width)	IS 14968: 2015
48.		Liner (tube)	IS 14968: 2015
49.		Mass of sack with liner	IS 1964: 2001
50.		Mass of unlaminated sacks	IS 1964: 2001
51.		Mouth (Hemming)	IS 14968: 2015
52.		Picks/dm	IS 14968: 2015
53.		Avg. breaking strength before UV Exposure	IS 1969 part 1: 2018
54.		Bottom seam	IS 14968: 2015
55.		Capacity	14968: 2015
56.		Dimension	IS 14968: 2015
57.		Elongation at break of fabric	IS 1969 part 1: 2018
58.		Ends/dm	IS 14968: 2015

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<b>Plastic &amp; Plastic Products</b>			
1.	Irrigation Equipment Emitters	Uniformity of emission rate and Range of Flow	IS: 13487:2024
2.	Chlorinated polyvinyl chloride (CPVC) Fittings for potable hot and cold-water distribution supplies	Classification of fittings	IS 17546: 2021
3.		Colour	IS:17546: 2021
4.		Density	IS:12235 (P-14): 2004
5.		Dimension of fitting (Diameter)	IS 17546: 2021
6.		Internal Hydrostatic Pressure Test at 20°C for 1 hr	IS:12235 (P-8), Sec-1: 2004
7.		Internal Hydrostatic Pressure Test at 95°C for 1000 hrs	IS:12235 (P-8), Sec-1: 2004
8.		Marking	IS 17546: 2021
9.		Opacity	IS:12235 (P-3): 2004
10.		Stress Relief Test	IS 12235 (PART 6): 2004
11.		Thermal stability by hydrostatic pressure testing 95°C for 8760 hrs.	IS:12235 (P-8)/ sec 1: 2004
12.		Vicat Softening Temperature	IS:12235 (P-2): 2004
13.		Visual Appearance	IS 17546: 2021

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	Plastic & Plastic Products		
14.		Wall Thickness	IS 17546: 2021
15.		Density	IS:12235 (P-14): 2004
16.		Diameter at any Point	IS:12235 (P-1): 2004
17.		Flattening Test	IS:12235 (P-19): 2004
18.		Internal Hydrostatic Pressure Test at 20°C for 1 hr	IS:12235 (P-8), Sec-1: 2004
19.		Internal Hydrostatic Pressure Test at 95°C for 165 hrs	IS:12235 (P-8), Sec-1: 2004
20.		Length	IS:12235 (P-1): 2004
21.		Mean outside Diameter	IS:12235 (P-1): 2004
22.		Opacity	IS:12235 (P-3): 2004
23.		Pipe Ends	IS:15778: 2007
24.		Resistance to external blow at 0°C	IS:4985: 2021
25.		Reversion Test	IS:12235 (P-5): 2004
26.		Tensile Strength	IS:12235 (P-13): 2004
27.		Thermal Stability by hydrostatic Pressure testing	IS:12235 (P-8), Sec-1: 2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
28.		Verification of the malfunction Temp.	IS:15778: 2007
29.		Vicat softening temperature	IS: 12235 (P-2): 2004
30.		Visual Appearance (Surface & Colour)	IS:15778: 2007
31.		Bending Test at 5±1°C	IS:16205 Part 24: 2017
32.		Bending Test at Room Temp	IS:16205 Part 24: 2017
33.		Compression Test	IS:16205 Pt 1: 2017
34.		Compression Test (Load taken)	IS:16205 Pt 24: 2017
35.		Construction	IS:16205 Pt 1: 2017
36.	Conduit Systems for cable Management	Degree of Protection ingress of foreign solid objective (IP 6X)	IS:16205 Pt 1: 2017
37.		Degree of protection ingress of foreign solid objective (IP 7X)	IS:16205 Pt 1: 2017
38.		Dimension	IS:16205 Pt 1: 2017
39.		Electromagnetic Compatibility	IS:16205 Pt 1: 2017
40.		Fire Hazard	IS:16205 Pt 1: 2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
41.		Glow Wire	IS:16205 Pt 1: 2017
42.		Impact Test	IS:16205 Pt 1: 2017
43.		Marking	IS:16205 Pt 1: 2017
44.	Conduits for Electrical Installations (Rigid plain conduits of insulating materials)	Bending Test	IS 9537 (Pt.3): 1983
45.		Collapse Test Resistance to heat Resistance to burning	IS 9537 (Pt.1& 3): 1983
46.		Collapse Test Resistance to heat Resistance to burning	IS 9537 (Pt.1& 3): 1983
47.	Conduits for electrical installations: General requirements	Construction	IS 9537 (Pt.1& 3): 1983
48.		Dimension (Inside Dia)	IS 9537 (Pt.1& 3): 1983
49.		Dimension (Outside Dia)	IS 9537 (Pt.1& 3): 1983
50.		Electrical Characteristics	IS 9537 (Pt.1): 1980
51.		Insulation resistance	IS:9537 (Pt-3): 1983
52.		Marking	IS:9537 (Pt-3): 1983
53.	Conduits for electrical installations: Part 1 General requirements	Uniformity of the Wall thickness	IS 9537 (Pt.1& 3): 1983
54.		Length	IS 9537 (Pt.1& 3): 1983
55.		Length	IS 9537 (Pt.1& 3): 1983

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
56.	Conduits for electrical installations: Part 3 Rigid plain conduits of insulating materials	Compression Test	IS 9537 (Pt.1): 1980
57.		Compression Test	IS 9537 (Pt.1): 1980
58.	Equipment Emitters	Resistance to Hydrostatic pressure	IS:13487: 2024
59.	Fabricated PVC-U fitting for potable water supplies	Dimension of socket Length (Inside diameter)	IS:10124 (P-1): 2009
60.		Dimension of socket Length (Inside diameter)	IS:10124 (P-2): 2009
61.		Dimension of socket Length (Inside diameter)	IS:10124 (P-3): 2009
62.		Dimension of socket Length (Inside diameter)	IS:10124 (P-4): 2009
63.		Dimension of socket Length (Inside diameter)	IS:10124 (P-6): 2009
64.		Dimension of socket Length (Inside diameter)	IS:10124 (P-5): 2009
65.		Dimension of Socket/ Pipe/ Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-1): 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
66.		Marking	IS:10124 (P-1): 2009
67.		Marking	IS:10124 (P-2): 2009
68.		Marking	IS:10124 (P-3): 2009
69.		Marking	IS:10124 (P-4): 2009
70.		Marking	IS:10124 (P-5): 2009
71.		Marking	IS:10124 (P-6): 2009
72.		Marking	IS:10124 (P-7): 2009
73.		Marking	IS:10124 (P-8): 2009
74.		Marking	IS:10124 (P-9): 2009
75.		Marking	IS:10124 (P-10): 2009
76.		Marking	IS:10124 (P-11): 2009
77.		Marking	IS:10124 (P-12): 2009
78.		Marking	IS:10124 (P-13): 2009
79.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-1): 2009
80.		Opacity	IS:10124 (Part-1): 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
81.		Out of Roundness	IS 10124 (Part. 1): 2009
82.		Short Term Hydraulic	IS:10124(Part-1): 2009
83.	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agricultural Pumps	Loss in mass on heating	IS:15265: 2003
84.		Bend radius	IS:15265: 2003
85.		Cold band radius	IS:15265: 2003
86.		Construction	IS:15265: 2003
87.		Dimension	IS:15265: 2003
88.		Effect of sunlight	IS:15265: 2003
89.		Hydrostatic burst	IS:15265, Annex A: 2003
90.		Hydrostatic Proof test	IS:15265, Annex A: 2003
91.		Length	IS:15265: 2003
92.		Pressure Impulse	IS:15265, Annex B: 2003
93.		Reinforced Fracture test Annex D	IS:15265: 2003
94.		Vacuum test	IS:15265, Annex C: 2003
95.		Irrigation Equipment Emitters	Construction and Workmanship

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
96.	Irrigation Equipment Quick Coupled Polyethylene pipes and fittings for Sprinkler irrigation Systems	Determination of Emitter Exponent	IS:13487: 2024
97.		Emission rate as function of inlet pressure	IS:13487: 2024
98.		Emitter Pull Out Test	IS:13487: 2024
99.		Flow path in emitter (Dimension of smallest flow path)	IS:13487: 2024
100.		Resistance to hydrostatic pressure	IS:13487: 2024
101.		Base Density	IS:17425: 2020
102.		Change in Hardness (After Aging)	IS:17425: 2020
103.		Dimension (Out Side Dia)	IS:17425: 2020
104.		Dimension (ovality)	IS:17425: 2020
105.		Dimension (Wall Thickness)	IS:17425: 2020
106.	Dimension of Quick Coupled pump Connector (B) Length	IS:17425: 2020	
107.	Dimension of Quick Coupled pump Connectors (A) Diameter	IS:17425: 2020	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
108.		Fusion Compatibility	Annex A of IS:17425: 2020
109.		Holding attachment for coupler parts	IS:17425: 2020
110.		Holding Attachments for Coupler Parts	IS 17425: 2020
111.		Hydraulic Characteristic (Quick coupled fittings)	Annex A of IS:17425: 2020
112.		Hydraulic Proof Test (Quick Coupled & Fitting)	IS:17425: 2020
113.		Hydrolic Performance Characteristic (Plain PE Pipe)	Annex A of IS:17425: 2020
114.		Leakage Test (Quick Couple & Fittings)	IS:17425: 2020
115.		Material (Rubber Ring)	IS:17425: 2020
116.		Material Coupler Pipe	IS:17425: 2020
117.		Melt flow Index	IS:17425: 2020
118.		Melt Flow Rate	IS:17425: 2020
119.		Melt Flow rate (Irrigation equipment quick coupled PE Pipe & Fitting)	IS:17425: 2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
120.		Melt Flow Rate (Irrigation equipment quick coupled PE pipe Fitting)	IS:17425: 2020
121.		Minimum elongation at break	IS:17425: 2020
122.		Minimum Tensile Strength	IS:17425: 2020
123.		Reversion	IS:17425: 2020
124.		Reversion	IS:17425: 2020
125.		Shore (A) Hardness (Rubber Ring)	IS:17425: 2020
126.		Shore A Hardness (Rubber Ring)	IS:17425: 2020
127.		Supply of Pipe	IS:17425: 2020
128.		Tensile Strength & elongation	Annex D of IS:17425: 2020
129.		Tensile Strength at Yield	Annex D of IS:17425: 2020
130.		Thermal Stability	IS:17425: 2020
131.		Thermal Stability (Oxidation Induction time)	IS:17425: 2020
132.		Visual appearance and workmanship (Plain PE Pipe)	IS:17425: 2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
<b>Plastic &amp; Plastic Products</b>				
133.	Multilayered Cross Laminated Sheets/Tarpaulin/Covers/Agricultural Films	Volatile Matter	IS:17425: 2020	
134.		Water Content	IS:17425: 2020	
135.		Weldability (Quick Coupled & fittings)	IS:17425: 2020	
136.		After Accelerated Ageing Tensile Strength, % (LD & TD)	IS 13360 (Part 5, Section 3): 2022	
137.		After Accelerated Ageing Tensile Strength, % (LD & TD)	IS 13360 (Part 5, Section 1): 2021	
138.		Elongation at Break, % (LD & TD)	IS 13360 (Part 5, Section 3): 2022	
139.		Flex Test after Ageing	IS 7016 (Part 8): 2023	
140.		Tensile Strength, kg/cm <sup>2</sup> (LD & TD)	IS 13360(Part 5, Section 3): 2022	
141.		Dart Impact Strength	IS 13360 Pt. 5 Sec. 6: 1999	
142.		Elongation at Break	IS 13360 Pt. 5 Sec. 1 & 3: 2021/2022	
143.		PE Pipes for water Supplies	Slow Crack growth Rate (Internal Pressure Test for 500 hrs at 80°C)	IS:4984: 2016
144.		PE Pipes for irrigation Laterals	Dimension wall thickness	IS:12786: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
145.	PE Pipes for Sewerage and Industrial Chemicals and Effluent	Coiling	IS:14333: 2022
146.		Colour	IS:4984: 2016
147.		Density	IS:7328: 2020
148.		Diameter	IS:4984: 2016
149.		Internal Pressure, Creep Rupture Test (Type & Acceptance)	IS:4984, Annex E: 2016
150.		Length	IS:14333: 2022
151.		MFI at 5 kg at 190°C	IS:2530: 1963
152.		Ovality	IS:4984: 2016
153.		Oxidation Induction Time	IS:4984: 2016
154.		Reversion Test	IS:4984: 2016
155.		Slow crack growth rate (Internal pressure Test for 500 hrs at 80°C)	IS:4984: 2016
156.		Tensile strength & Elongation at Break	IS:4984 (Annex H): 2016
157.		Tensile Strength for Butt-Fusion	IS:4984: 2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
158.		Visual appearance	IS:14333: 2022
159.		Wall Thickness	IS:4984: 2016
160.	Plastics Piping systems for water supply and for drainage and sewerage under pressure Polyethylene (PE)	Coiling	ISO:4427: 2019
161.		Color	ISO:4427: 2019
162.		Compound Density	ISO:1183-1: 2019
163.		Decohesion of an electrofusion Joint	ISO 13954: 1997
164.		Effect on water Quality	ISO:4427-1: 2019
165.		Effect on Water Quality	ISO:4427 (P-1): 2019
166.		Elongation at break	ISO:4427: 2019
167.		Hydraulic characteristic s- (Type Test Acceptance Test)	ISO:1167 (Part 1): 1992
168.		Hydraulic characteristic s- (Type Test Acceptance Test)	ISO:1167 (Part 2): 1992
169.		Hydraulic Characteristic s- (Type Test, Acceptance Test)	ISO:4427: 2019
170.		Length	ISO:4427: 2019
171.	Longitudinal Reversion	ISO:4427: 2019	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
172.		Mean Out Side Diameter	ISO:4427: 2019
173.		Mean Side Diameter	ISO:4427: 2019
174.		Melt flow rate	ISO:1133-1 : 2022
175.		Melt Flow rate	ISO 1183-1: 2019
176.		Melt Flow rate	ISO 1133-1: 2022
177.		Ovality	ISO:4427: 2019
178.		Oxidation Induction Time	ISO:11357-6: 2018
179.		Oxidation Induction Time (OIT)	ISO:13357-6: 2017
180.		Pigment Dispersion	ISO:18553: 2002
181.		Resistance to slow crack growth	ISO 13479: 2022
182.		Resistance to Weathering	ISO 16871: 2003
183.		Tensile strength for butt-fusion	ISO:13953: 1999
184.		Visual Appearance	ISO:4427: 2019
185.		Wall Thickness	ISO:4427: 2019
186.		Water Content	ISO:15512: 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
187.	Polyethylene Films and Sheets	Density	IS:13360, (Part 3/Sec 10/11): 2021
188.		Elongation at (Break & Yield)	IS 13360 (Part 5/Sec 1): 2021
189.		Elongation at (Break & Yield)	IS 13360 (Part 5/Sec 3): 2022
190.	Polyethylene pipe for supply of gaseous fuels	Thermal Stability to Oxidation	IS 4984 Annex B: 2016
191.	Polyethylene Pipes for irrigation Lateral	Elongation at Break	IS:12786: 2024
192.		Environmental stress cracking	Annex D of IS:12786: 2024
193.		Hydraulic Test (Quality Test Acceptance Test)	Annex C of IS:12786: 2024
194.		Reversion Test	IS:12786: 2024
195.		Tensile Strength at Break	IS:12786: 2024
196.		Visual appearance	IS:12786: 2024
197.		Dimension outside diameter	IS:12786: 2024
198.		Polyethylene Pipes for the Supply of Gaseous Fuels	Base density
199.	Colour of Pipe		IS 14885: 2022
200.	Designation		IS 14885: 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
201.		Effect of Gas constituents on the hydrostatic strength	IS 14885: 2022
202.		Finish	IS:14885: 2022
203.		Length of Pipe	IS:14885: 2022
204.		MFI at 5 kg at 190°C	IS 2530: 1963
205.		MFI at 5 kg at 190°C	IS:2530: 1963
206.		Outside diameter.	IS 14885: 2022
207.		Ovality	IS:14885: 2022
208.		Pigment Dispersion	IS 14885 Annex A: 2022
209.		Resistance to Weathering	IS 14885 Annex B: 2022
210.		Resistance to Weathering	IS 14885: 2022
211.		Reversion Test	IS 4984 Annex F: 2016
212.		Slow Crack Growth Rate Test at 165 Hours	IS 4984 (Annex. E & J): 2016
213.		Slow Crack Growth Rate Test at 500 hours	IS 4984 (Annex. E & J): 2022
214.		Squeeze Off	IS 14885 Annex C: 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
215.		Tensile Strength at yield & Elongation at break	IS 4984 Annex H: 2016
216.		Volatile loss / Volatile content	IS 4984 Annex C: 2016
217.		Wall Thickness	IS:14885: 2022
218.	Polypropylene random Copolymer Pipes for Hot and Cold-Water Supplies	Impact Strength	IS 15801: 2008
219.		Melt Flow Index	IS:13360 (P-4), Sec 1, subsection 1: 2000
220.	Rotational Moulded Polyethylene Water Storage Tank	Antioxidant	IS 12701: 1996
221.		Construction	IS:12701: 1996
222.		Density	IS 12701: 1996
223.		Dimension of Cylindrical/ Rectangular Tank Internal Diameter of Manhole	IS:12701: 1996
224.		Dimension of Cylindrical/ Rectangular Tank Net Capacity / Capacity	IS:12701: 1996
225.		Dimension of Cylindrical/ Rectangular Tank Overall Diameter	IS:12701: 1996

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
226.		Dimension of Cylindrical/ Rectangular Tank Overall Height	IS:12701: 1996
227.		Dimension of Cylindrical/ Rectangular Tank Wall Thickness	IS:12701: 1996
228.		Dimension of Cylindrical/ Rectangular Tank Weight of Tank	IS:12701: 1996
229.		Flexural Modulus	IS:13360(Part-5/Sec.-7): 2022
230.		Melt Flow Index	IS 12701: 1996
231.		Melt Flow Index	IS:2530: 1963
232.		Resistance to Deformation	IS:12701: 1996
233.		Resistance to Impact	IS:12701: 1996
234.		Tensile Strength	IS:13360-part 5 sec 2: 2017
235.		Test for top load Resistance	IS:12701: 1996
236.		Visual inspection for flat area	IS:12701: 1996
237.		Wide band painted around the tank	IS:12701: 1996

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# Quality And Accreditation Institute

## Centre for International Accreditation

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Scope of Accreditation

**ARDM Labs Private Limited**

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
238.		Melt flow rate	IS:2530: 1963
239.		Density (Raw material)	IS:7328: 2020
240.		Density (Raw Material)	IS:7328: 2020
241.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 1 ): 1987
242.	Injection Moulded pvc socket fitting with solvent cement joints for water supplies	Opacity Test	IS:7834(Part-1): 1987
243.		Ovality (Max. out of roundness)/ Squareness	IS:7834(Part-1): 1987
244.		Short Term Hydraulic	IS:7834(Part-1): 1987
245.		Stress Relief Test	IS:7834(Part-1): 1987
246.		Thickness	IS 7834 Pt. 1: 1987
247.		UPVC injection Moulding fitting for soil and waste Discharge System	Water tightness of Joints
248.	Polyethylene Pipes for the Supply of Gaseous Fuel	Density	IS: 7328: 2020
249.		Hydraulic characteristics - (Type Test, Acceptance Test)	IS 4984 Annex E: 2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
250.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage, Pipes and Fittings External surface Type A & B.	Color	IS:16098, Pt-2: 2013
251.		Color	IS:16098, Pt-1: 2013
252.		Density	IS:7328: 2020
253.		Dimension of Integral Sockets and Spigot Ends	IS:16098, Pt-1: 2013
254.		Dimension of Integral Sockets and Spigot Ends	IS:16098, Pt-2: 2013
255.		Length of Pipe	IS:16098, Pt-1: 2013
256.		Resistance to combined Temperature cycle under external loading	IS:16098, P-2, Annexure D: 2013
257.		Reversion Test	IS:12235, Pt 5: 2004
258.		Ring Flexibility	As per Annex D of IS 16098 (Part 1): 2013
259.		Ring Stiffness/Pipe Stiffness	IS:16098 Annex B: 2013
260.		Stress relief test	IS:12235 Pt-6: 2004
261.		Visual Appearance	IS:16098, Pt-1: 2013
262.		Visual Appearance	IS:16098, Pt-2: 2013

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
263.		Resistance to internal Hydrostatic pressure	IS:16098: 2013
264.		Creep Ratio	IS:16098 Pt 1: 2013
265.		Creep Ratio	IS:16098 Pt 1: 2013
266.		Vicat Softening Temp	IS:16098: 2013
267.		Effect of heating	IS:16098 Pt 2, Annex D: 2013
268.		Effect of heating	IS:16098 Pt 2 Annex D: 2013
269.		Resistance to combined temperature cycle under external loading	IS:16098 Pt 2: 2013
270.		Resistance to heating	IS:16098, Pt 2 : 2013
271.		Resistance to heating	IS:12235, Pt 6: 2004
272.		Water tightness of joint	IS:16098 Pt 2: 2013
273.		Oxidation Induction Time	IS:16098: 2013
274.		Dimensions (OD&ID)	IS 12235 (P-1): 2004
275.		Resistance to external blow at 0 degree	IS:12235 (P-9): 2004
276.		Wall Thickness	IS:12235 (P-1): 2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
277.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage and Sewerage Systems -	Dimension of Socket & Spigot end for Cement Solvent Joint	IS:12235 (P-1): 2004
278.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage and Sewerage Systems -	Dimension of Socket & Spigot end for Cement Solvent Joint	IS 12235 Pt. 1: 2004
279.	Unplasticized Polyvinyl Chloride (PVC-U) Pipes for Soil and Waste Discharge System for Inside and Outside Building including Ventilation and Rain Water System	Axial Shrinkage	IS:13592: 2013
280.		Colour	IS:13592: 2013
281.		Diameter	IS:12235 (Part-1): 2004
282.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:4985: 2021
283.		Effect of sunlight	IS 13592: 2013
284.		Effect of sunlight	IS 12235 (PART 13): 2004

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
<b>Plastic &amp; Plastic Products</b>				
285.		Length	IS:13592: 2013	
286.		Marking	IS:13592: 2013	
287.		Resistance to external blow at 0°C	IS:12235 (part -9): 2004	
288.		Reversion test	IS:12235 (P-5): 2004	
289.		Stress relief test	IS 12235 (part 6): 2004	
290.		Tensile Strength before and after exposure to sunlight	IS:12235 (P-13): 2004	
291.		Vicat Softening Temperature	IS:12235 (P-2): 2004	
292.		Visual Appearance/ Workmanship and Finish	IS:13592: 2013	
293.		Water tightness of joint	IS 13592: 2013	
294.		Impact Strength	IS 12235 Pt. 9: 2004	
295.		Unplasticized Polyvinyl Chloride (PVCU) Screen and Casing Pipes for Bore/Tubewells	Resistance to External Blow	IS:12235 (P-9): 2004
296.		Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings	Chamfer	IS:14735: 1999
297.			Colour of Fitting	IS:14735: 1999
298.	Design Requirement		IS:14735: 1999	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
299.	including Ventilation and Rain Water System	Impact Test	IS:14735 Annexure C: 1999
300.		Manufacture	IS:14735: 1999
301.		Nominal diameter Min Inside Dia of Socket	IS:14735: 1999
302.		Socket and spigot configuration	IS:14735: 1999
303.		Socket Dimension	IS:14735: 1999
304.		Vicat Softening Temperature (VST)	IS 12235 Pt. 2: 2004
305.		Visual Appearance	IS:14735: 1999
306.		Water tightness of Joints	IS:14735, Annex D: 1999
307.		Workmanship	IS:14735: 1999
308.		Socket Dimension	IS:14735: 1999
309.		Wall Thickness	IS:14735: 1999
310.		Wall thickness	IS:14735: 1999
311.		Stress Relief Test	IS:12235 (P-6): 2004
312.	Vicat Softening Point	IS:14735: 1999	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
313.	UPVC Screen and Casing Pipes for Bore / Tube Well	Height of Rib	IS 12235 (Part 1): 2004
314.	HDPE/PP Woven sacks for packaging sacks for packaging of 50 kg food grains	Exposure to UV radiation and weathering	IS:14887: 2014
315.	High Density Polyethylene Films	Appearance	IS 10889: 2004
316.		Composition	IS:16738: 2018
317.		Composition	IS:10146: 1982
318.		Composition	IS:7328: 2020
319.		Dart Impact	IS 10889: 2004
320.		Dart Impact	IS:13360 Part 5 sec 6: 1999
321.		Density	IS 13360 Part -3 Sec.10/11: 2021
322.		Elongation at break	IS 13360(Part 5/sec1): 2021
323.		Elongation at break	IS:13360(Part 5/sec 3): 2022
324.		Film Form	IS 10889: 2004
325.		Grades	IS:10889: 2004
326.		Melt Flow Rate	IS: 13360(P-4). Sec.1: 2000
327.	Nominal Width	IS 10889 Annex B: 2004	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
328.		Odour	IS:10889: 2004
329.		Tensile Strength	IS:2508: 2024
330.	Polyethylene Films and Sheets	Ageing Test	IS:7016 (Part-8): 2023
331.		Appearance	IS:2508: 2024
332.		Dart Impact	IS:2508: 2024
333.		Density	IS:13360, Part-3, Sec-10/11: 2021
334.		Elongation %	IS:2508: 2024
335.		Film Form	IS:2508: 2024
336.		Melt Flow Rate	IS 13360: Part 4: Sec 1: Subsec 1: 2000
337.		Nominal Thickness	IS:2508: 2024
338.		Nominal Width	IS:2508: 2024
339.		Odour	IS:2508: 2024
340.		Puncture Resistance	IS:2508, Annex C: 2024
341.		Tear Resistance	IS:2508, Annex-B: 2024
342.		Tear Resistance	IS:13360 P-5/Sec 23: 1996
343.		Tensile Strength	IS:2508: 2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
344.	Fabricated PVC-U fitting for potable water supplies	Dimension of socket Length (Inside diameter)	IS:10124 (P-12): 2009
345.		Dimension of socket Length (Inside diameter)	IS:10124 (P-10): 2009
346.		Dimension of socket Length (Inside diameter)	IS:10124 (P-11): 2009
347.		Dimension of socket Length (Inside diameter)	IS:10124 (P-13): 2009
348.		Dimension of socket Length (Inside diameter)	IS:10124 (P-1): 2009
349.		Dimension of socket Length (Inside diameter)	IS:10124 (P-7): 2009
350.		Dimension of socket Length (Inside diameter)	IS:10124 (P-8): 2009
351.		Dimension of socket Length (Inside diameter)	IS:10124 (P-9): 2009
352.		Dimension of socket Length (Inside diameter)	IS:10124 (P-10): 2009
353.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-2): 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
354.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-3): 2009
355.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-4): 2009
356.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-5): 2009
357.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-6): 2009
358.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric)	IS:10124 (P-7): 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
		Sealing Ring Joint, Grooved Socket, Fabricated Socket)	
359.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-8): 2009
360.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-9): 2009
361.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-10): 2009
362.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-11): 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
363.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-12): 2009
364.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-13): 2009
365.		Mean Socket Inside Diameter at Mid Point and Socket Length	IS:10124 (P-2): 2009
366.		Mean Socket Inside Diameter at Mid Point and Socket Length	IS:10124 (P-3): 2009
367.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-4): 2009
368.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-5): 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
369.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-6): 2009
370.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-7): 2009
371.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-8): 2009
372.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-9): 2009
373.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-10): 2009
374.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-11): 2009
375.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-12): 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
376.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-13): 2009
377.	Permanently Lubricated HDPE Telecom Ducts for Use as Underground Optical Fibre Cable Conduits	Tensile strength	ASTM D 638: 2014
378.		Colour of the Duct	TEC/GR/FA/CDS-008/04/AUG-19: 2019
379.		Crush Resistance	TEC/GR/FA/CDS-008/04/AUG-19: 2019
380.		Density	IS 7328: 2020
381.		Dimensions of ducts	TEC/GR/FA/CDS-008/04/AUG-19: 2019
382.		Elongation	ASTM D 638: 2014
383.		Hydraulic characteristics (Internal Pressure, Creep Rupture Test, Type & Acceptance)	IS:4984: 2016
384.		Identification Markings	TEC/GR/FA/CDS-008/04/AUG-19: 2019
385.		Impact Strength	IS 12235(PART 9): 2004
386.		Internal Co-Efficient of Friction	TEC/GR/FA/CDS-008/04/AUG-19: 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
387.		Length	TEC/GR/FA/CDS-008/04/AUG-19: 2019
388.		Longitudinal Reversion Test	IS:4984: 2016
389.		Mandrel Test	TEC/GR/FA/CDS-008/04/AUG-19: 2019
390.		Melt Flow Rate (MFR):	IS: 2530: 1963
391.	Underground Optical Fibre Cable Conduits	Ovality Test	IS:4984: 2016
392.	Permanently Lubricated HDPE Telecom Ducts for Use as Underground Optical Fibre Cable Conduits	UV stabiliser test	ASTM G 154: 2016
393.		Visual Inspection	TEC/GR/FA/CDS-008/04/AUG-19: 2019
394.		Wall thickness	TEC/GR/FA/CDS-008/04/AUG-19: 2019
395.	Specification for injection moulded PVC socket fitting with solvent cement joints for water supplies	Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 4): 1987
396.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric	IS:7834(Part-2): 1987

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	Plastic & Plastic Products		
		Sealing Ring Joint, Grooved Socket, Fabricated Socket)	
397.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 3): 1987
398.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 5): 1987
399.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 6): 1987
400.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 7): 1987

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
401.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 8): 1987
402.	UPVC Pipes for Water Supplies	Internal Hydrostatic Pressure Test (Type & Acceptance)	IS:4985: 2021
403.	Irrigation Equipment - Emitting Pipe Systems	Inside Diameter	IS:13488: 2008
404.		Dimension of wall thickness	IS:13488: 2008
405.		Fittings	IS:13488: 2008
406.		Resistance to hydro static Pressure at Ambient Temperature	IS:13488: 2008
407.		Resistance to Pull Out of Joints Between Fitting and Emitting	IS:13488: 2008
408.		Spacing of emitter units	IS:13488: 2008
409.		Designation	IS:13488: 2008
410.		Emission rate of functional of Inlet Pressure	IS:13488: 2008
411.		Emitting Unit Exponent	IS:13488: 2008

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
412.		ESCR TEST	IS 12876 Annex D: 2024
413.		Flow Path in emitter (Dimension of Smallest flow path)	IS:13488: 2008
414.		Identification of material	IS 13488: 2008
415.		Resistance to Hydro static Pressure at Elevated Temperature	IS:13488: 2008
416.		Resistance to hydrostatic pressure at elevated temperature	IS:13488: 2008
417.		Uniformity of emission rate and Range of Flow	IS:13488: 2008
418.		After Accelerated Ageing Tear Strength, % (LD & TD)	IS 14611 (Annex. F): 2024
419.	Multilayered Cross Laminated Sheets/Tarpaulin/ Covers/Agricultural Films	After Accelerated Ageing Tear Strength, % (LD & TD)	IS 7016 (Part 8): 2023
420.		After Accelerated Ageing Tensile Strength, % (LD & TD)	IS 7016 (Part 8): 2023
421.		Average Tensile Strength and Elongation at Break after	IS 14611 (Annex. G): 2024

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Mechanical Testing			
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	<b>Plastic &amp; Plastic Products</b>		
		exposing to UV radiation and weathering	
422.		Construction of Sheet	IS 14611: 2024
423.		Dart Impact Strength	IS 13360 (Part 5, Section 6): 1999
424.		Ease of in-Situ Repair, N/10mm Width	IS 14611 (Annex. D): 2024
425.		Elongation at Break, % (LD & TD)	IS 13360 (Part 5, Section 1): 2021
426.		Ends and Sides Dimension, mm	IS 14611: 2024
427.		Flex Test	IS 7016 (Part 4): 2003
428.		Flex Test after Ageing	IS 7016 (Part 4): 2003
429.		Panel	IS 14611: 2024
430.		Panel Length and Panel Width	IS 14611: 2024
431.		Strength of Joints/Seam	IS 14611: 2024
432.		Substance (GSM)	IS 7016 (Part 1): sec: 2:2019
433.		Tear Strength, gm (LD & TD)	IS 14611: 2024
434.		Tensile Strength, kg/cm <sup>2</sup> (LD & TD)	IS 13360 (Part 5, Section 1): 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
435.		Water proofness Test	IS:7016 (P-7): 2023
436.		Workmanship	IS 14611: 2024
437.	PE pipes for water supply	Width of Strip	IS 4984: 2016
438.	Polyethylene Pipes for Water Supplies	Density	IS: 7328: 2020
439.		Diameter	IS:4984: 2016
440.		Internal Pressure, Creep Rupture Test (Type & Acceptance)	IS:4984: 2016
441.		Length	IS:4984: 2016
442.		MFI at 5 kg at 190°C	IS:2530: 1963
443.		Ovality	IS:4984: 2016
444.		Oxidation Induction Time (Thermal Stability)	IS:4984: 2016
445.		Reversion Test	IS:4984: 2016
446.		Slow Crack Growth Rate (Internal Pressure Test for 500 hrs. at 80°C	IS:4984: 2016
447.		Tensile Strength for Butt-Fusion	IS:4984: 2016

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
<b>Plastic &amp; Plastic Products</b>				
448.	Polyethylene Pipes for Water Supply	Tensile strength & Elongation at Break	IS 4984 (Annex. H): 2016	
449.		Coiling	IS:4984: 2016	
450.		Colour	IS:4984: 2016	
451.		Depth of Blue Stripes	IS:4984: 2016	
452.		Identification of Strips	IS:4984: 2016	
453.		Visual appearance	IS:4984: 2016	
454.		Wall Thickness	IS:4984: 2016	
455.		Polypropylene Random Copolymer Pipes for hot and cold-water supplies	Colour	IS:15801: 2008
456.			Density	IS:12235(P-14): 2004
457.			Dimension (Outside Diameter)	IS:15801: 2008
458.			Dimension of Pipe (Length of Straight Pipe)	IS: 15801: 2008
459.			Dimension of Pipe (Ovality)	IS:15801: 2008
460.			Dimension of Pipe (Wall Thickness)	IS:15801: 2008
461.			Fusion Compatibility at 95°C for 165 hr	IS:12235 (P-8), Sec-1: 2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Plastic Products		
462.		Hydraulic Characteristic (Internal Creep Rupture test at 20°C for 1 hr)	IS:12235 (P-8), Sec-1: 2004
463.		Hydraulic Characteristic (Internal Creep Rupture test at 95°C for 22hr)	IS:12235 (P-8), Sec-1: 2004
464.		Hydraulic Characteristic (Internal Creep Rupture Test at 110°C for 8760 hr)	IS:12235 (P-8), Sec-1: 2004
465.		Hydraulic Characteristic (Internal Creep Rupture Test at 95°C for 1000 hr)	IS:12235 (P-8), Sec-1: 2004
466.		Hydraulic Characteristic (internal Creep Rupture Test at 95°C for 165 hr.	IS:12235 (P-8), Sec-1: 2004
467.		Impact Strength	IS:15801: 2008
468.		Melt Flow Rate	IS 13360: Part 4: Sec 1: Subsec 1: 2000
469.		Opacity	IS:12235 (P-3): 2004
470.		Reversion Test	IS:12235 (P-5) Sec-1: 2004
471.		Visual Appearance	IS:15801: 2008

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
472.	Specifications for UPVC Screen and Casing Pipes for Bore / Tube Well	Vicat softening	IS: 12235(Part-2): 2004
473.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC -U) Pipes for use in Underground Drainage and Sewerage	Appearance	IS:15328: 2003
474.		Elastomeric Sealing Ring Joint (Internal Hydrostatic Pressure)	Annex D of IS:15328: 2003
475.		Length of the pipe	IS 15328: 2003
476.		Longitudinal Reversion	IS:12235 (P-5): 2004
477.		Mean Outside dia	IS:15328: 2003
478.		Resistance to internal hydrostatic pressure	IS:15328: 2003
479.		Resistance to internal hydrostatic pressure	IS:12235 (Part-8): 2004
480.		Ring Stiffness	IS:15328: 2003
481.		Vicat Softening Temperature	IS:15328: 2003
482.		Wall Thickness	IS:15328: 2003
483.		Colour	IS:15328: 2003
484.		Dimension of Elastomeric sealing ring sockets and Spigot Ends	IS:15328: 2003

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
485.		Dimension of solvent cement joints	IS:15328: 2003
486.		Elastomeric Sealing Ring Joint (Internal Negative Hydrostatic Pressure Internal Vacuum)	Annexure.E of IS:15328: 2003
487.		Solvent cemented Joint (Internal Hydrostatic Pressure)	IS:15328: 2003
488.		Solvent Cemented Joint (Internal Negative Hydrostatic Pressure Internal Vacuum)	IS:15328: 2003
489.		Resistance internal hydrostatic Pressure (Type test at 60°C for 1000 hr)	IS:12235 (P-8): 2004
490.		Resistance to internal hydrostatic pressure (a) acceptance test at 27°C for 1 hr	IS:12235 (P-8): 2004
491.		Resistance to external blows at 0°C	IS:15328: 2003
492.		Solvent Cemented Joint (Internal Hydrostatic Pressure)	IS:15328: 2003

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Plastic &amp; Plastic Products</b>			
493.	Unplasticized polyvinyl chloride (PVC-U) plain screen and casing pipes for Bore/Tubewell	Tensile Strength	IS:12818: 2010
494.	Unplasticized Polyvinyl Chloride (PVCU) Screen and Casing Pipes for Bore/Tubewells	Colour	IS:12818: 2010
495.		Dimension of Rib, Slots	IS:12818: 2010
496.		Dimension of Sealing elements	IS:12818: 2010
497.		Test for Internal Dia	IS:12818: 2010
498.		Threading of Screen and Casing Pipes	IS:12818: 2010
499.	Unplasticized PVC Pipes for Water Supplies	Colour	IS: 4985: 2021
500.		Pipe Ends	IS:4985: 2021
501.		Resistance to external below at 0°C	IS:4985: 2021
502.	UPVC Pipes for Water Supplies	Density	IS:12235(Part-14): 2004
503.		Length	IS:12235(Part-1): 2004
504.		Opacity test	IS:12235(Part-3): 2004
505.		Sealing rings	IS 4985: 2021
506.		Socket ID/OD (mouth/root)	IS 4985: 2021

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Plastic Products</b>		
507.		Vicat softening	IS: 12235(Part-2): 2004
508.		Reversion Test	IS:4985: 2021
509.		Visual appearance	IS:4985: 2021
510.		Diameter	IS:12235 (Part-1): 2004
511.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:4985: 2021
512.		Chamfer	IS:4985: 2021
513.		Marking	IS:4985: 2021
514.		Sealing Ring Hardness	IS:12818: 2010
515.		Density	IS:12235(Part-14): 2004
516.		UPVC Screen and Casing Pipes for Bore / Tubewell	Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)
517.	Length		IS:12818: 2010

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Mechanical Testing			
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	Plastic & Plastic Products		
518.		Mean Outer dia.	IS:12818: 2010
519.		Resistance to external below at 0°C	IS:12235 (Part-9): 2004
520.		Visual appearance	IS 12818: 2010
521.		Wall thickness	IS 12235 (Part 1): 2004

