

Quality And Accreditation Institute

Centre for Laboratory Accreditation



Certificate of Accreditation

ARDM Labs Private Limited

A-80, G. T. Karnal Road, 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/CLA/TL/2023/0011

Valid from: 27 May 2023

Valid until: 26 May 2025

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CLA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resins		
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



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	Plastic & Resins		
8.		Carbon Black Dispersion	IS:2530: 1963
9.	High Density Polyethylene Pipes for Sewerage	Carbon black content	IS:2530: 1963
10.		Carbon black dispersion	IS:2530: 1963
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: 1989
16.		Carbon Black Content	IS:2530: 1963
17.		Antioxidant	IS:12786: 1989
18.		Carbon Black Dispersion	IS:2530: 1963



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	Plastic & Resins		
19.		Susceptibility to Environmental Stress Cracking	IS:12786: 1989
20.		Toluene extract	IS:12786: 1989
21.	Irrigation Equipment - Polyethylene Pipes for Irrigation Laterals	Volatile content	IS:12786: 1989
22.		Carbon Black Dispersion	IS:2530: 1963
23.		Antioxidant	IS:12786: 1989
24.		Carbon Black Content	IS:2530: 1963
25.		Susceptibility to Environmental Stress Cracking	IS:12786: 1989
26.		Toluene extract	IS:12786: 1989
27.	Irrigation Equipment Emitting Pipe Systems	Identification of material	ASTM E 1252: 2013



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	Plastic & Resins		
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 Stabilizer 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



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resins		
34.		Carbon Black Dispersion	ISO 18553: 2002
35.		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:2530: 1963
40.		Ash content	IS 13360 (Part 8/Sec 8): 2004
41.		Carbon Black Dispersion	IS:2530: 1963
42.	Polyethylene Pipes for the	Volatile content	IS:4984: 2016



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	Plastic & Resins		
43.	Supply of Gaseous Fuels	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
52.	Polypropylene-Random Copolymer Pipes for Hot and Cold Water Supplies	Anti-oxidant	IS 15801: 2008
53.		Carbon black content	IS:2530: 1963



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	Plastic & Resins		
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.		Carbon Black Content	IS 2530: 1963
58.	Product for Irrigation Equipment- quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Antioxidant	IS:17425: 2020
59.		Ash content	IS:17425: 2020
60.		Carbon black dispersion	IS:2530: 1963



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	Plastic & Resins		
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
67.		Effect on Water	IS 4985: 2021



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	Plastic & Resins		
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.		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



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	Plastic & Resins		
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
79.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies	Effect on Water	IS:4985 : 2021
80.		Effect on Water	IS:4985 : 2021
81.	PE/HDPE Resin/ Carbon Black Master Batch	Overall Migration Test	IS:10146, Amd 1: 1982
82.	Polyethylene Pipes for Water Supply	Overall migration test	IS:9845: 1998



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	Plastic & Resins		
83.		Overall migration test	IS 9845 : 1998
84.		Volatile Matter	IS:4984, Amd.1&2: 2016
85.		Carbon Black Content	IS:2530: 1963
86.	Rotational Moulded Polyethylene Water Storage Tank	Carbon Black Dispersion	IS:2530: 1963
87.		Overall Migration Test	IS:9845: 1998
88.	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
89.		Effect on water	IS:12235 Pt-4 : 2004



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	Plastic & Resins		
90.		Effect on water	IS:4985 : 2021
91.		Resistance to dichloromethane	IS 12235 PART 11: 2004
92.		Resistance to Sulphuric Acid	IS:12235 (Part-7): 2004
93.	Unplasticized PVC Pipes for Water Supplies	Effect on Water	IS:12235 (Part-4): 2004
94.		K-Value	IS:4669, Amd 1: 1968
95.		Sulphated Ash Content Test	IS:4985: 2021
96.		Vinyl Chloride Monomer (VCM)	IS:10151, Amd 4: 1982



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resins		
97.	UPVC Screen and Casing Pipes for Bore / Tube Well	Effect on Water	IS:12235 (Part 10): 2004
98.		Effect on Water	IS:4985: 2021
99.		K-Value	IS:4669, Amd 1: 1968
100.		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
	Textile (Woven & Non-woven)		
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) Woven Sacks for Packaging 50 kg/25 kg Sugar	Presence of UV stabilizer	ASTM E 1252: 2013
3.		Ash content	IS 14968: 2015
4.	High Density Polyethylene (HDPE) / Polypropylene (PP) Woven Sacks for Packaging of 50 kg Food Grains	Presence of UV stabilizer	ASTME1252: 2013
5.		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
	Plastics and Plastic Products		
1.	Irrigation Equipment Emitters	Uniformity of emission rate and Range of Flow	IS:13487: 1992
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



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
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
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



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	Plastics and Plastic Products		
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 below at 0°C	IS:4985: 2021
25.		Reversion Test	IS:12235 (P-5): 2004



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
26.		Tensile Strength	IS:12235 (P-13): 2004
27.		Thermal Stability by hydrostatic Pressure testing	IS:12235 (P-8),Sec-1: 2004
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.	Chlorinated Polyvinyl Chloride Compounds Used for pipes and fittings	Charpy Impact strength	13360 pt. 5 sec-5: 2017
32.		Tensile Modulus	IS:13360 (P-5),Sec-1: 2018
33.		Tensile Strength	IS:13360 (P-5),Sec 1: 2021
34.	Conduit Systems for cable Management	Bending Test at 5±1°C	IS:16205 Part 24: 2017



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	Plastics and Plastic Products		
35.		Bending Test at Room Temp	IS:16205 Part 24: 2017
36.		Compression Test	IS:16205 Pt 1: 2017
37.		Compression Test (Load taken)	IS:16205 Pt 24: 2017
38.		Construction	IS:16205 Pt 1: 2017
39.		Degree of Protection ingress of foreign solid objective (IP 6X)	IS:16205 Pt 1: 2017
40.		Degree of protection ingress of foreign solid objective (IP 7X)	IS:16205 Pt 1: 2017
41.		Dimension	IS:16205 Pt 1: 2017
42.		Electromagnetic Compatibility	IS:16205 Pt 1: 2017
43.		Fire Hazard	IS:16205 Pt 1: 2017
44.		Glow Wire	IS:16205 Pt 1: 2017
45.		Impact Test	IS:16205 Pt 1: 2017
46.		Marking	IS:16205 Pt 1: 2017



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	Plastics and Plastic Products		
47.	Conduits for Electrical Installations (Rigid plain conduits of insulating materials)	Bending Test	IS 9537 (Pt.3): 1983
48.		Collapse Test Resistance to heat Resistance to burning	IS 9537 (Pt.1& 3): 1983
49.		Collapse Test Resistance to heat Resistance to burning	IS 9537 (Pt.1& 3): 1983
50.	Conduits for electrical installations: General requirements	Construction	IS 9537 (Pt.1& 3): 1983
51.		Dimension (Inside Dia)	IS 9537 (Pt.1& 3): 1983
52.		Dimension (Outside Dia)	IS 9537 (Pt.1& 3): 1983
53.		Electrical Characteristics	IS 9537 (Pt.1): 1980
54.		Impact Test	IS 9537 (Pt.1& 3): 1983
55.		Insulation resistance	IS:9537 (Pt-3): 1983
56.		Marking	IS:9537 (Pt-3): 1983
57.	Conduits for electrical installations: Part 1 General	Uniformity of the Wall thickness	IS 9537 (Pt.1& 3): 1983



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58.	requirements	Uniformity of the Wall thickness	IS 9537 (Pt.1& 3): 1983
59.		Length	IS 9537 (Pt.1& 3): 1983
60.		Length	IS 9537 (Pt.1& 3): 1983
61.	Conduits for electrical installations: Part 3 Rigid plain conduits of insulating materials	Compression Test	IS 9537 (Pt.1): 1980
62.		Compression Test	IS 9537 (Pt.1): 1980
63.	Equipment Emitters	Resistance to Hydrostatic pressure	IS:13487: 1992
64.	Fabricated PVC-U fitting for potable water supplies	Dimension of socket Length (Inside diameter)	IS:10124 (P-1): 2009
65.		Dimension of socket Length (Inside diameter)	IS:10124 (P-2): 2009
66.		Dimension of socket Length (Inside diameter)	IS:10124 (P-3): 2009
67.		Dimension of socket Length (Inside diameter)	IS:10124 (P-4): 2009
68.		Dimension of socket Length (Inside diameter)	IS:10124 (P-6): 2009



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	Plastics and Plastic Products		
69.		Dimension of socket Length (Inside diameter)	IS:10124 (P-5): 2009
70.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-1): 2009
71.		Marking	IS:10124 (P-1): 2009
72.		Marking	IS:10124 (P-2): 2009
73.		Marking	IS:10124 (P-3): 2009
74.		Marking	IS:10124 (P-4): 2009
75.		Marking	IS:10124 (P-5): 2009
76.		Marking	IS:10124 (P-6): 2009
77.		Marking	IS:10124 (P-7): 2009
78.		Marking	IS:10124 (P-8): 2009
79.		Marking	IS:10124 (P-9): 2009
80.		Marking	IS:10124 (P-10): 2009



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81.		Marking	IS:10124 (P-11): 2009
82.		Marking	IS:10124 (P-12): 2009
83.		Marking	IS:10124 (P-13): 2009
84.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-1): 2009
85.		Opacity	IS:10124 (Part-1) : 2009
86.		Out of Roundness	IS 10124 (Part. 1) : 2009
87.		Short Term Hydraulic	IS:10124(Part-1): 2009
88.	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses For Agriculture Pumps.	Loss in mass on heating	IS:15265: 2003
89.	Flexible PVC Pipes or Polymer Reinforced Thermoplastic Hoses for Suction and Delivery Lines of Agricultural Pumps	Bend radius	IS:15265: 2003
90.		Cold band radius	IS:15265: 2003



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
91.		Construction	IS:15265: 2003
92.		Dimension	IS:15265: 2003
93.		Effect of sunlight	IS:15265: 2003
94.		Hydrostatic burst	IS:15265,Annex A: 2003
95.		Hydrostatic Proof test	IS:15265,Annex A: 2003
96.		Length	IS:15265: 2003



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
97.		Pressure Impulse	IS:15265,Annex B: 2003
98.		Reinforced Fracture test Annex D	IS:15265: 2003
99.		Vacuum test	IS:15265,Annex C: 2003
100.	Irrigation Equipment Emitters	Construction and Workmanship	IS:13487: 1992
101.		Determination of Emitter Exponent	IS:13487: 1992
102.		Emission rate as function of inlet pressure	IS:13487: 1992
103.		Emitter Pull Out Test	IS:13487: 1992
104.		Flow path in emitter (Dimension of smallest flow path)	IS:13487: 1992
105.		Resistance to hydrostatic pressure	IS:13487: 1992
106.	Irrigation Equipment Quick Coupled Polyethylene pipes and fittings for Sprinkler	Base Density	IS:17425: 2020



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
107.	irrigation Systems	Change in Hardness (After Aging)	IS:17425: 2020
108.		Dimension (Out Side Dia)	IS:17425: 2020
109.		Dimension (ovality)	IS:17425: 2020
110.		Dimension (Wall Thickness)	IS:17425: 2020
111.		Dimension of Quick Coupled pump Connector (B) Length	IS:17425: 2020
112.		Dimension of Quick Coupled pump Connectors (A) Diameter	IS:17425: 2020
113.		Fusion Compatibility	Annex A of IS:17425: 2020
114.		Holding attachment for coupler parts	IS:17425: 2020



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
115.		Holding Attachments for Coupler Parts	IS 17425: 2020
116.		Hydraulic Characteristic (Quick coupled fittings)	Annex A of IS:17425: 2020
117.		Hydraulic Proof Test (Quick Coupled & Fitting)	IS:17425: 2020
118.		Hydraulic Performance Characteristic (Plain PE Pipe)	Annex A of IS:17425: 2020
119.		Leakage Test (Quick Couple & Fittings)	IS:17425: 2020
120.		Material (Rubber Ring)	IS:17425: 2020
121.		Material Coupler Pipe	IS:17425: 2020
122.		Melt flow Index	IS:17425: 2020



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
123.		Melt Flow Rate	IS:17425: 2020
124.		Melt Flow rate (Irrigation equipment quick coupled PE Pipe & Fitting)	IS:17425: 2020
125.		Melt Flow Rate (Irrigation equipment quick coupled PE pipe Fitting)	IS:17425: 2020
126.		Minimum elongation at break	IS:17425: 2020
127.		Minimum Tensile Strength	IS:17425: 2020
128.		Reversion	IS:17425: 2020
129.		Reversion	IS:17425: 2020
130.		Shore (A) Hardness (Rubber Ring)	IS:17425: 2020



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
131.		Shore A Hardness (Rubber Ring)	IS:17425: 2020
132.		Supply of Pipe	IS:17425: 2020
133.		Tensile Strength & elongation	Annex D of IS:17425: 2020
134.		Tensile Strength at Yield	Annex D of IS:17425: 2020
135.		Thermal Stability	IS:17425: 2020
136.		Thermal Stability (Oxidation Induction time)	IS:17425: 2020
137.		Visual appearance and workmanship (Plain PE Pipe)	IS:17425: 2020
138.		Volatile Matter	IS:17425: 2020



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
139.		Water Content	IS:17425: 2020
140.		Weld ability (Quick Coupled & fittings)	IS:17425: 2020
141.	Multilayered Cross Laminated Sheets/Tarpaulin/ Covers/Agricultural Films	After Accelerated Ageing Tensile Strength, % (LD & TD)	IS 13360 (Part 5, Section 3): 2018
142.		After Accelerated Ageing Tensile Strength, % (LD & TD)	IS 13360 (Part 5, Section 1): 2018
143.		Elongation at Break, % (LD & TD)	IS 13360 (Part 5, Section 3): 2018
144.		Flex Test after Ageing	IS 7016 (Part 8): 1975
145.		Tensile Strength, kg/cm ² (LD & TD)	IS 13360(Part 5, Section 3): 2018
146.		Dart Impact Strength	IS 13360 Pt. 5 Sec. 6: 1999



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
147.		Elongation at Break	IS 13360 Pt. 5 Sec. 1 & 3: 2018
148.	PE Pipes for water Supplies	Slow Crack growth Rate (Internal Pressure Test for 500 hrs at 80°C	IS:4984: 2016
149.	PE Pipes for irrigation Laterals	Dimension wall thickness	IS:12786: 1989
150.	PE Pipes for Sewerage and Industrial Chemicals and Effluent	Coiling	IS:14333: 2022
151.		Colour	IS:4984: 2016
152.		Density	IS:7328: 2020
153.		Diameter	IS:4984: 2016
154.		Internal Pressure ,Creep Rupture Test (Type & Acceptance)	IS:4984,Annex E: 2016
155.		Length	IS:14333: 2022
156.		MFI at 5 kg at 190°C	IS:2530: 1963
157.		Ovality	IS:4984: 2016
158.		Oxidation Induction Time	IS:4984: 2016



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
159.		Reversion Test	IS:4984: 2016
160.		Slow crack growth rate (Internal pressure Test for 500 hrs at 80°C	IS:4984: 2016
161.		Tensile strength & Elongation at Break	IS:4984 (Annex H): 2016
162.		Tensile Strength for Butt-Fusion	IS:4984: 2016
163.		Visual appearance	IS:14333: 2022
164.		Wall Thickness	IS:4984: 2016
165.	Plastic Materials & products	Determination of Tensile Properties	IS 13360 -Part 5/Sec3: 2022
166.		Tensile strength at Break	IS 13360 -Part 5/Sec1: 2021
167.	Plastics Piping systems for water supply and for drainage and sewerage under pressure Polyethylene (PE)	Coiling	ISO:4427: 2019
168.		Color	ISO:4427: 2019



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
169.		Compound Density	ISO:1183-1 : 2019
170.		Decohesion of an electrofusion Joint	ISO 13954: 1997
171.		Effect on water Quality	ISO:4427-1: 2019
172.		Effect on Water Quality	ISO:4427 (P-1): 2019
173.		Elongation at break	ISO:4427: 2019
174.		Hydraulic characteristic s-(Type Test Acceptance Test)	ISO:1167 (Part 1): 1992
175.		Hydraulic characteristic s-(Type Test Acceptance Test)	ISO:1167 (Part 2): 1992



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
176.		Hydraulic Characteristics (Type Test, Acceptance Test)	ISO:4427: 2019
177.		Length	ISO:4427: 2019
178.		Longitudinal Reversion	ISO:4427: 2019
179.		Mean Outside Diameter	ISO:4427: 2019
180.		Mean Side Diameter	ISO:4427: 2019
181.		Melt flow rate	ISO:1133-1 : 2022



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
182.		Melt Flow rate	ISO 1183-1: 2019
183.		Melt Flow rate	ISO 1133-1: 2022
184.		Ovality	ISO:4427: 2019
185.		Oxidation Induction Time	ISO:11357-6: 2018
186.		Oxidation Induction Time (OIT)	ISO:13357-6: 2017
187.		Pigment Dispersion	ISO:18553: 2002



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
188.		Resistance to slow crack growth	ISO 13479: 2022
189.		Resistance to Weathering	ISO 16871: 2003
190.		Tensile strength for butt-fusion	ISO:13953: 1999
191.		Visual Appearance	ISO:4427: 2019
192.		Wall Thickness	ISO:4427: 2019
193.		Water Content	ISO:15512: 2019
194.	Polyethylene (HDPE) Polypropylene (PP) woven sacks for packaging of 50 kg Food Grains	Mass	IS:1964: 2001



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
195.	Polyethylene Films and Sheets	Density	IS:13360,(Part 3/Sec 1): 1995
196.		Elongation at (Break & Yield)	IS 13360 (Part 5/Sec 1): 2021
197.		Elongation at (Break & Yield)	IS 13360 (Part 5/Sec 3):: 2022
198.	Polyethylene pipe for supply of gaseous fuels	Thermal Stability to Oxidation	IS 4984 Annex B: 2016
199.	Polyethylene Pipes for irrigation Lateral	Elongation at Break	IS:12786: 1989
200.		Environmental stress cracking	Annex D of IS:12786: 1989
201.		Hydraulic Test (Quality Test Acceptance Test)	Annex C of IS:12786: 1989
202.		Reversion Test	IS:12786: 1989
203.		Tensile Strength at Break	IS:12786: 1989
204.		Visual appearance	IS:12786: 1989
205.		Dimension outside diameter	IS:12786: 1989
206.		Base density	IS:7328: 2020
207.	Polyethylene Pipes for the Supply of Gaseous Fuels	Colour of Pipe	IS 14885: 2022



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
208.		Designation	IS 14885: 2022
209.		Effect of Gas constituents on the hydrostatic strength	IS 14885: 2022
210.		Finish	IS:14885: 2022
211.		Length of Pipe	IS:14885: 2022
212.		MFI at 5 kg at 190°C	IS 2530: 1963
213.		MFI at 5 kg at 190°C	IS:2530: 1963
214.		Outside diameter.	IS 14885: 2022
215.		Ovality	IS:14885: 2022
216.		Pigment Dispersion	IS 14885 Annex A: 2022
217.		Resistance to Weathering	IS 14885 Annex B: 2022
218.		Resistance to Weathering	IS 14885: 2022
219.		Reversion Test	IS 4984 Annex F: 2016



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
220.		Slow Crack Growth Rate Test at 165 Hours	IS 4984 (Annex. E & J): 2022
221.		Slow Crack Growth Rate Test at 500 hours	IS 4984 (Annex. E & J): 2022
222.		Squeeze Off	IS 14885 Annex C: 2022
223.		Tensile Strength at yield & Elongation at break	IS 4984 Annex H: 2016
224.		Volatile loss / Volatile content	IS 4984 Annex C: 2016
225.		Wall Thickness	IS:14885: 2022
226.	Polypropylene random Copolymer Pipes for Hot and Cold Water Supplies	Impact Strength	IS 15801: 2008
227.		Melt Flow Index	IS:13360 (P-4),Sec 1,subsection 1: 2000
228.	Rotational Moulded Polyethylene Water Storage Tank	Antioxidant	IS 12701: 1996
229.		Construction	IS:12701: 1996
230.		Density	IS 12701 : 1996



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
231.		Dimension of Cylindrical/ Rectangular Tank Internal Diameter of Manhole	IS:12701: 1996
232.		Dimension of Cylindrical/ Rectangular Tank Net Capacity / Capacity	IS:12701: 1996
233.		Dimension of Cylindrical/ Rectangular Tank Overall Diameter	IS:12701: 1996
234.		Dimension of Cylindrical/ Rectangular Tank Overall Height	IS:12701: 1996
235.		Dimension of Cylindrical/ Rectangular Tank Wall Thickness	IS:12701: 1996
236.		Dimension of Cylindrical/ Rectangular Tank Weight of Tank	IS:12701: 1996
237.		Flexural Modulus	IS:13360(Part-5/Sec.-7): 2017
238.		Melt Flow Index	IS 12701: 1996
239.		Melt Flow Index	IS:2530: 1963
240.		Resistance to Deformation	IS:12701: 1996
241.		Resistance to Impact	IS:12701: 1996



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
242.		Tensile Strength	IS:13360 part 5 sec 2: 1996
243.		Test for top load Resistance	IS:12701: 1996
244.		Visual inspection for flat area	IS:12701: 2016
245.		Wide band painted around the tank	IS:12701: 2016
246.		Melt flow rate	IS:2530: 1963
247.		Density (Raw material)	IS:7328: 2020
248.		Density (Raw Material)	IS:7328: 2020
249.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 1): 1987
250.	Specification for injection moulded PVC socket fitting with solvent cement joints for water supplies	Opacity Test	IS:7834(Part-1): 1987
251.		Ovality (Max. out of roundness)/ Squareness	IS:7834(Part-1): 1987



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
252.		Short Term Hydraulic	IS:7834(Part-1): 1987
253.		Stress Relief Test	IS:7834(Part-1): 1987
254.		Thickness	IS 7834 Pt. 1: 1987
255.	Specification for UPVC injection Moulding fitting for soil and waste Discharge System	Water tightness of Joints	IS:14735,Annex D: 1999
256.	Specifications for Polyethylene Pipes for the Supply of Gaseous Fuel	Density	IS: 7328: 2020
257.		Hydraulic characteristics – (Type Test, Acceptance Test)	IS 4984 Annex E: 2016
258.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage	Color	IS:16098,P-2: 2013
259.		Color	IS:16098,Pt 1 : 2013



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
260.		Density	IS:7328: 2020
261.		Dimension of Integral Sockets and Spigot Ends	IS:16098,Pt 1 : 2013
262.		Dimension of Integral Sockets and Spigot Ends	IS:16092,Pt 2: 2013
263.		Length of Pipe	IS:16098,Pt 1 : 2013
264.		Resistance to combined Temperature cycle under external loading	IS:16098,P-2,Annexur D : 2013
265.		Reversion Test	IS:12235,Pt 5: 2004
266.		Ring Flexibility	As per Annex D of IS 16098 (Part 1): 2013
267.		Ring Stiffness/Pipe Stiffness	IS:16098 Annex B: 2018



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
268.		Stress relief test	IS:12235 Pt 6: 2004
269.		Visual Appearance	IS:16098,Pt 1 : 2013
270.		Visual Appearance	IS:16098,Pt-2: 2013
271.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage And Sewerage, Pipes and Fittings Type A & B	Resistance to internal Hydrostatic pressure	IS:16098: 2018
272.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage, Pipes and Fittings with Smooth External Surface Type A	Creep Ratio	IS:16098 Pt 1: 2018
273.		Creep Ratio	IS:16098 Pt 1: 2013
274.		Vicat Softening Temp	IS:16098: 2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
275.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage, Pipes and Fittings with Smooth External Surface Type A & B	Effect of heating	IS:16098 Pt 2,Annex D: 2018
276.		Effect of heating	IS:16098 Pt 2 Annex D: 2018
277.		Resistance to combined temperature cycle under external loading	IS:16098 Pt 2: 2013
278.		Resistance to heating	IS:16098,Pt 2 : 2018
279.		Resistance to heating	IS:12235,Pt 6 : 2004



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
280.		Water tightness of joint	IS:16098 Pt 2: 2013
281.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage. Specification Part 2 Pipes and fittings with smooth external surface Type A	Oxidation Induction Time	IS:16098: 2018
282.	Structured Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage	Dimensions(OD&ID)	IS 12235 (P-1): 2004
283.		Resistance to external blow at 0 degree	IS:12235 (P-9): 2004
284.		Wall Thickness	IS:12235 (P-1): 2004
285.	Textiles High Density Polyethylene (HDPE) Polypropylene (PP) woven sacks for packaging of 50 kg Food Grains	Breaking strength of Bottom Seam	IS:9030: 1979
286.		Dimension	IS:14887: 2014



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
287.		Elongation at break	IS:1969 (Part-1): 2009
288.		Ends/dm	IS:14887: 2014
289.		Breaking Strength	IS:1969 (Part 1): 2009
290.		Identification	ASTME 1252: 2013
291.		Linear Density	IS:6192: 1994
292.		Linear Density	IS:11197: 2014
293.		Linear Density	IS14887: 2014



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
294.		Mouth	IS:14887: 2014
295.		Tape Width	IS:6192: 1994
296.		Tape Width	IS:11197: 1985
297.		Tenacity	IS:6192: 1994
298.		Thickness	IS:6192: 1994
299.		Width of Tape	IS:14887: 2014
300.		Width of Tape	IS:6192: 1994



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
301.	Textiles-High Density Polyethylene (HDPE)/Polypropylene 10kg,15kg, 20kg, 25kg and 30kg Food Grains	Average Breaking Strength of Fabric, N a)Length Wise	IS:1969 (Part 1): 2009
302.		Average Breaking Strength of Fabric, N b)Width Wise	IS 1969 (Part 1): 2009
303.		Bottom Seam	IS:10789: 2000
304.		Breaking Strength of Fabric after exposure to UV radiation and Weathering	IS:16208 (Annex C) + A 2: 2015
305.		Capacity	IS:16208+ A2 : 2015
306.		Dimension in cm (a) Inside Length	IS:16208 + A 2: 2015
307.		Dimension in cm b)Inside Width	IS 16208 + A 2: 2015
308.		Elongation of break of the fabric, % a)Length Wise b)Width Wise	IS 1969 (Part 1): 2009



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
309.		Ends, per dm	IS 16208 (Annex. B) + A 2:: 2015
310.		Fabric (tape Width)	IS 6192: 1994
311.		Mass of Sack	IS:1964: 2001
312.		Minimum Breaking Strength of Bottom Seam, N	IS 9030: 1979
313.		Mouth	IS 16208 + A 2: 2015
314.		Picks per dm	IS 16208 (Annex. B) + A 2: 2015
315.		Raw Material	IS 16208 + A 2: 2015
316.		Sacks	IS 16208 + A 2: 2015



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
317.	Textiles-High Density Polyethylene/Polypropylene (PP)Woven Sacks for packing 50kg Food Grains	identification	ASTM E 1252: 1998
318.		Linear Density	IS 11197: 2014
319.		Linear Density	IS 6192: 1994
320.		Linear Density	IS:6192: 1994
321.		Tape Width	IS:11197: 1985
322.		Tenacity	IS:6192: 1994



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
323.		Thickness	IS:6192: 1994
324.		Width	IS:6192: 1994
325.		Width of Tape	IS 6192: 1994
326.		Width of Tape	IS 11197: 1985
327.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage and Sewerage Systems - Specification AS PER IS 15328:2003	Dimension of Socket & Spigot end for Cement Solvent Joint	IS:12235 (P-1): 2004
328.		Dimension of Socket & Spigot end for Cement Solvent Joint	IS 12235 Pt. 1: 2004



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
329.	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
330.		Colour	IS:13592: 2013
331.		Diameter	IS:12235 (Part-1): 2004
332.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:4985: 2021
333.		Effect of sunlight	IS 13592: 2018



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
334.		Effect of sunlight	IS 12235 (PART 13): 2004
335.		Length	IS:13592: 2018
336.		Marking	IS:13592: 2013
337.		Resistance to external below at 0°C	IS:12235 (part -9): 2004
338.		Reversion test	IS:12235 (P-5): 2004



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
339.		Stress relief test	IS 12235 (part 6): 2004
340.		Tensile Strength before and after exposure to sunlight	IS:12235 (P-13): 2004
341.		Vicat Softening Temperature	IS:12235 (P-2): 2004
342.		Visual Appearance/ Workmanship and Finish	IS:13592: 2013
343.		Water tightness of joint	IS 13592: 2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
344.		Impact Strength	IS 12235 Pt. 9: 2004
345.	Unplasticized Polyvinyl Chloride (PVCU) Screen and Casing Pipes for Bore/Tube	Resistance to External Blow	IS:12235 (P-9): 2004
346.	Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings including Ventilation and Rain Water System	Chamfer	IS:14735: 1999
347.		Colour of Fitting	IS:14735: 1999
348.		Design Requirement	IS:14735: 1999



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
349.		Impact Test	IS:14735 Annexure C: 1999
350.		Manufacture	IS:14735: 1999
351.		Nominal diameter Min Inside dia of Socket	IS:14735: 1999
352.		Socket and spigot configuration	IS:14735: 1999



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
353.		Socket Dimension	IS:14735: 1999
354.		Vicat Softening Temperature (VST)	IS 12235 Pt. 2: 2004
355.		Visual Appearance	IS:14735: 1999
356.		Water tightness of Joints	IS:14735,Annex D: 1999



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
357.		Workmanship	IS:14735: 1999
358.	Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste discharge System for Inside and Outside Buildings including ventilation and Rain Water System - Specification as per IS 14735 : 1999	Socket Dimension	IS:14735: 1999
359.		Wall Thickness	IS:14735: 1999
360.	Unplasticized Polyvinyl Chloride (UPVC) Single Wall Corrugated Pipes for Drainage	Density	IS 13360 Pt. 3 Sec. 1: 1995
361.	UPVC Injection Moulding fitting for Soil and Waste Discharge System	Wall thickness	IS:14735: 1999
362.		Stress Relief Test	IS:12235 (P-6): 2004



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Mechanical Testing			
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	Plastics and Plastic Products		
363.		Vicat Softening Point	IS:14735: 1999
364.	UPVC Screen and Casing Pipes for Bore / Tube Well	Height of Rib	IS 12235 (Part 1): 2004
365.	HDPE/PP Woven sacks for packaging sacks for packaging of 50 kg food grains	Exposure to UV radiation and weathering	IS:14887: 2014
366.		Picks	IS:14887: 2014
367.	Textiles High density Polyethylene (HDPE) Polypropylene(PP) woven sacks for Packaging of 50 kg Food Grains-specification	Anti-slip pattern	IS:14887: 2014
368.		Sacks Bottom Seam	IS:14887: 2014
369.	High Density Polyethylene Films	Appearance	IS 10889: 2004
370.		Composition	IS:16738: 2018
371.		Composition	IS:10146: 1982
372.		Composition	IS:7328: 2020
373.		Dart Impact	IS 10889: 2004
374.		Dart Impact	IS:13360 Part 5 sec 6: 2000



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	Plastics and Plastic Products		
375.		Density	IS 13360 PART -3 SEC.1: 2000
376.		Elongation at break	IS 13360(Part 5/sec1): 2000
377.		Elongation at break	IS:13360(Part 5/sec 3): 2000
378.		Film Form	IS 10889: 2004
379.		Grades	IS:10889: 2004
380.		Melt Flow Rate	IS: 13360(P-4).Sec.1: 2000
381.		Nominal Width	IS 10889 Annex B: 2004
382.		Odour	IS:10889: 2004
383.		Tensile Strength	IS:2508: 2016
384.	Polyethylene Films and Sheets	Ageing Test	IS:7016 (Part-8): 1975
385.		Appearance	IS:2508: 2016
386.		Dart Impact	IS:2508: 2016
387.		Density	IS:13360,Part-3,Sec-1: 1995
388.		Elongation %	IS:2508: 2016
389.		Film Form	IS:2508: 2016
390.		Melt Flow Rate	IS 13360 : Part 4 : Sec 1 : Subsec 1: 2000
391.		Nominal Thickness	Annex A of IS:2508: 2016
392.		Nominal Width	IS:2508: 2016
393.		Odour	IS:2508: 2016



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
394.		Puncture Resistance	IS:2508,Annex C: 2016
395.		Tear Resistance	IS:2508,Annex-B: 2016
396.		Tear Resistance	IS:13360 P-5/Sec 23: 1996
397.		Tensile Strength	IS:2508: 2016
398.	Fabricated PVC-U fitting for potable water supplies	Dimension of socket Length (Inside diameter)	IS:10124 (P-12): 2009
399.		Dimension of socket Length (Inside diameter)	IS:10124 (P-10): 2009
400.		Dimension of socket Length (Inside diameter)	IS:10124 (P-11): 2009
401.		Dimension of socket Length (Inside diameter)	IS:10124 (P-13): 2009
402.		Dimension of socket Length (Inside diameter)	IS:10124 (P-1): 2009
403.		Dimension of socket Length (Inside diameter)	IS:10124 (P-7): 2009
404.		Dimension of socket Length (Inside diameter)	IS:10124 (P-8): 2009
405.		Dimension of socket Length (Inside diameter)	IS:10124 (P-9): 2009
406.		Dimension of socket Length (Inside diameter)	IS:10124 (P-10): 2009



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	Plastics and Plastic Products		
407.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-2): 2009
408.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-3): 2009
409.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P- 4): 2009
410.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-5): 2009
411.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-6): 2009
412.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-7): 2009



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
413.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-8): 2009
414.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-9): 2009
415.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-10): 2009
416.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-11): 2009
417.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-12): 2009
418.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:10124 (P-13): 2009
419.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-2): 2009



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
420.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-3) : 2009
421.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-4): 2009
422.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-5) : 2009
423.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-6): 2009
424.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-7) : 2009
425.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-8): 2009
426.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-9) : 2009
427.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-10): 2009
428.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-11): 2009
429.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-12): 2009
430.		Mean Socket Inside Diameter at Mid-Point and Socket Length	IS:10124 (P-13) : 2009



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
431.	Permanently Lubricated HDPE Telecom Ducts for Use as Underground Optical Fiber Cable Conduits	Tensile strength	ASTM D 638: 2014
432.		Colour of the Duct	TEC/GR/FA/CDS-008/04/AUG-19: 2019
433.		Crush Resistance	TEC/GR/FA/CDS-008/04/AUG-19: 2019
434.		Density	IS 7328: 1992
435.		Dimensions of ducts	TEC/GR/FA/CDS-008/04/AUG-19: 2019
436.		Elongation	ASTM D 638: 2014



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
437.		Hydraulic characteristics (Internal Pressure, Creep Rupture Test, Type & Acceptance)	IS:4984: 2016
438.		Identification Markings	TEC/GR/FA/CDS-008/04/AUG-19: 2019
439.		Impact Strength	IS 12235(PART 9): 2004
440.		Internal Co-Efficient of Friction	TEC/GR/FA/CDS-008/04/AUG-19: 2019
441.		Length	TEC/GR/FA/CDS-008/04/AUG-19: 2019
442.		Longitudinal Reversion Test	IS:4984: 2016



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
443.		Mandrel Test	TEC/GR/FA/CDS-008/04/AUG-19: 2019
444.		Melt Flow Rate (MFR):	IS: 2530: 1963
445.		Ovality Test	IS:4984: 2016
446.		UV stabilizer test	ASTM G 154: 2016
447.		Visual Inspection	TEC/GR/FA/CDS-008/04/AUG-19: 2019
448.		Wall thickness	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
	Plastics and Plastic Products		
449.	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
450.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part-2): 1987
451.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 3): 1987
452.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 5): 1987
453.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 6): 1987
454.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 7): 1987



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	Plastics and Plastic Products		
455.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:7834(Part- 8): 1987
456.	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
457.		Minimum breaking strength of bottom seam	IS 9030: 1979
458.		Fabric	IS 14968: 2015
459.		Liner	IS 14968: 2015
460.		Mass of sack with liner	IS 1964: 2001
461.		Mass of unlaminated sacks	IS 1964: 2001



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
462.		Mouth	IS 14968: 2015
463.		Picks/dm	IS 14968: 2015
464.		Avg. breaking strength before UV Exposure	IS 1969 part 1: 2009
465.		Bottom seam	IS 14968: 2015
466.		Capacity	14968: 2015
467.		Dimension	IS 14968: 2015
468.		Elongation at break of fabric	IS 1969 part 1: 2009



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	Plastics and Plastic Products		
469.		Ends/dm	IS 14968: 2015
470.	UPVC Pipes for Water Supplies	Internal Hydrostatic Pressure Test (Type & Acceptance)	IS:4985: 2021
471.	Irrigation Equipment - Emitting Pipe Systems	Inside Diameter	IS:13488: 2008
472.		Dimension of wall thickness	IS:13488: 2008
473.		Fittings	IS:13488: 2008
474.		Resistance to hydro static Pressure at Ambient Temperature	IS:13488: 2008
475.		Resistance to Pull Out of Joints Between Fitting and Emitting	IS:13488: 2008
476.		Spacing of emitter units	IS:13488: 2008
477.		Designation	IS:13488: 2008
478.		Emission rate of functional of Inlet Pressure	IS:13488: 2008
479.		Emitting Unit Exponent	IS:13488: 2008



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
480.		ESCR TEST	IS 12876 ANNEX D : 1989
481.		Flow Path in emitter (Dimension of Smallest flow path)	IS:13488: 2008
482.		Identification of material	IS 13488: 2008
483.		Resistance to Hydro static Pressure at Elevated Temperature	IS:13488: 2008
484.		Resistance to hydrostatic pressure at elevated temperature	IS:13488: 2008
485.		Uniformity of emission rate and Range of Flow	IS:13488: 2008
486.	Multilayered Cross Laminated Sheets/Tarpaulin/Covers/Agricultural Films	After Accelerated Ageing Tear Strength, % (LD & TD)	IS 14611 (Annex. F) + A 4: 2016
487.		After Accelerated Ageing Tear Strength, % (LD & TD)	IS 7016 (Part 8): 1975
488.		After Accelerated Ageing Tensile Strength, % (LD & TD)	IS 7016 (Part 8): 1975



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
489.		Average Tensile Strength and Elongation at Break after exposing to UV radiation and weathering	IS 14611 (Annex. G) + A 4: 2016
490.		Construction of Sheet	IS 14611 + A 4: 2016
491.		Dart Impact Strength	IS 13360 (Part 5, Section 6): 1999
492.		Ease of in-Situ Repair, N/10mm Width	IS 14611 (Annex. D) + A 4: 2016
493.		Elongation at Break, % (LD & TD)	IS 13360 (Part 5, Section 1): 2021
494.		Ends and Sides Dimension, mm	IS 14611 + A 4: 2016
495.		Flex Test	IS 7016 (Part 4): 2003
496.		Flex Test after Ageing	IS 7016 (Part 4): 2003



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
497.		Panel	IS 14611 + A 4: 2016
498.		Panel Length and Panel Width	IS 14611 + A 4: 2016
499.		Strength of Joints/Seam	IS 14611 + A 4: 2016
500.		Substance (GSM)	IS 7016 (Part 1): 1982
501.		Tear Strength, gm (LD & TD)	IS 14611 (Annex. F) + A 4: 2016
502.		Tensile Strength, kg/cm ² (LD & TD)	IS 13360 (Part 5, Section 1): 2021
503.		Water proofness Test	IS:7016 (P-7): 2009
504.		Workmanship	IS 14611 +A 4: 2016



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
505.	Polyethylene Pipes for Water Supplies	Width of Strip	IS 4984: 2016
506.		Density	IS: 7328: 2020
507.		Diameter	IS:4984: 2016
508.		Internal Pressure, Creep Rupture Test (Type & Acceptance)	IS:4984: 2016
509.		Length	IS:4984: 2016
510.		MFI at 5 kg at 190°C	IS:2530: 1963
511.		Ovality	IS:4984: 2016
512.		Oxidation Induction Time (Thermal Stability)	IS:4984: 2016
513.		Reversion Test	IS:4984: 2016
514.		Slow Crack Growth Rate (Internal Pressure Test for 500 hrs. at 80°C	IS:4984: 2016
515.		Tensile Strength for Butt-Fusion	IS:4984: 2016
516.		Tensile strength & Elongation at Break	IS 4984 (Annex. H): 2016
517.		Coiling	IS:4984: 2016



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
518.		Colour	IS:4984: 2016
519.		Depth of Blue Stripes	IS:4984: 2016
520.		Identification of Strips	IS:4984: 2016
521.		Visual appearance	IS:4984: 2016
522.		Wall Thickness	IS:4984: 2016
523.	Polypropylene Random Copolymer Pipes for hot and cold water supplies Specification	Colour	IS:15801: 2008
524.		Density	IS:12235(P-14): 2004
525.		Dimension (Outside Diameter)	IS:15801: 2008
526.		Dimension of Pipe (Length of Straight Pipe)	IS: 15801: 2008
527.		Dimension of Pipe (Ovality)	IS:15801: 2008
528.		Dimension of Pipe (Wall Thickness)	IS:15801: 2008
529.		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
	Plastics and Plastic Products		
530.		Hydraulic Characteristic (Internal Creap Rupture test at 20°C for 1 hr)	IS:12235 (P-8),Sec-1: 2004
531.		Hydraulic Characteristic (Internal Creap Rupture test at 95°C for 22hr)	IS:12235 (P-8),Sec-1: 2004
532.		Hydraulic Characteristic (Internal Creap Rupture Test at 110°C for 8760 hr)	IS:12235 (P-8),Sec-1: 2004
533.		Hydraulic Characteristic (Internal Creap Rupture Test at 95°C for 1000 hr)	IS:12235 (P-8),Sec-1: 2004
534.		Hydraulic Characteristic (internal Creap Rupture Test at 95°C for 165 hr.	IS:12235 (P-8),Sec-1: 2004
535.		Impact Strength	IS:15801: 2008
536.		Melt Flow Rate	IS 13360 : Part 4 : Sec 1 : Subsec 1: 2000
537.		Opacity	IS:12235 (P-3): 2004
538.		Reversion Test	IS:12235 (P-5).Sec-1: 2004
539.		Visual Appearance	IS:15801: 2008
540.	Specifications for UPVC Screen and Casing Pipes for Bore / Tube Well	Vicat softening	IS: 12235(Part-2): 2004



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
541.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC -U) Pipes for use in Underground Drainage and Sewerage	Appearance	IS:15328: 2003
542.		Elastomeric Sealing Ring Joint (Internal Hydrostatic Pressure)	Annex D of IS:15328: 2003
543.		Length of the pipe	IS 15328: 2003
544.		Longitudinal Reversion	IS:12235 (P-5): 2004
545.		Mean Outside Dia	IS:15328: 2003
546.		Resistance to internal hydrostatic pressure	IS:15328: 2003
547.		Resistance to internal hydrostatic pressure	IS:12235 (Part-8): 2004



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
548.		Ring Stiffness	IS:15328: 2003
549.		Vicat Softening Temperature	IS:15328: 2003
550.		Wall Thickness	IS:15328: 2003
551.		Colour	IS:15328: 2003
552.		Dimension of Elastomeric sealing ring sockets and Spigot Ends	IS:15328: 2003
553.		Dimension of solvent cement joints	IS:15328: 2003
554.		Elastomeric Sealing Ring Joint (Internal Negative Hydrostatic Pressure Internal Vacuum)	Annexure E of IS:15328: 2003



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
555.		Solvent cemented Joint (Internal Hydrostatic Pressure)	IS:15328: 2003
556.		Solvent Cemented Joint (Internal Negative Hydrostatic Pressure Internal Vacuum)	IS:15328: 2003
557.		Resistance internal hydrostatic Pressure (Type test at 60°C for 1000 hr)	IS:12235 (P-8): 2004
558.		Resistance to internal hydrostatic pressure (a) acceptance test at 27°C for 1 hr	IS:12235 (P-8): 2004
559.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in underground Drainage and Sewerage Systems - Specification as per IS 15328:2003	Resistance to external blows at 0°C	IS:15328: 2003
560.		Solvent Cemented Joint (Internal Hydrostatic Pressure)	IS:15328: 2003



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
561.	Unplasticized polyvinyl chloride (PVC-U) plain screen and casing pipes for Bore/Tube well	Tensile Strength	IS:12818: 2010
562.		Colour	IS:12818: 2010
563.		Dimension of Rib, Slots	IS:12818: 2010
564.		Dimension of Sealing elements	IS:12818: 2010
565.		Test for Internal Dia	IS:12818: 2010
566.		Threading of Screen and Casing Pipes	IS:12818: 2010
567.	Unplasticized PVC Pipes for Water Supplies	Colour	IS: 4985: 2021
568.		Pipe Ends	IS:4985: 2021
569.		Resistance to external below at 0°C	IS:4985: 2021
570.	UPVC Pipes for Water	Density	IS:12235(Part-14): 2004



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
571.	Supplies.	Length	IS:12235(Part-1): 2004
572.		Opacity test	IS:12235(Part-3): 2004
573.		Sealing rings	IS 4985: 2021
574.		Socket ID/OD (mouth/root)	IS 4985: 2021
575.		Vicat softening	IS: 12235(Part-2): 2004
576.		Reversion Test	IS:4985: 2021
577.		Visual appearance	IS:4985: 2021
578.		Diameter	IS:12235 (Part-1): 2004
579.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:4985: 2021
580.		Wall Thickness	IS:12235 (Part-1): 2004
581.		Chamfer	IS:4985: 2021
582.		Marking	IS:4985: 2021
583.	UPVC Plain Screen and Casing pipes	Sealing Ring Hardness	IS:12818: 2010
584.	UPVC Screen and Casing Pipes for Bore / Tube well	Density	IS:12235(Part-14): 2004



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
585.		Dimension of Socket/Pipe/Fitting (Solvent Cemented, Elastomeric Sealing Ring Joint, Grooved Socket, Fabricated Socket)	IS:12818: 2010
586.		Length	IS:12818: 2010
587.		Mean Outer dia.	IS:12818: 2016
588.		Resistance to external below at 0°C	IS:12235 (Part-9): 2004
589.		Visual appearance	IS 12818: 2016
590.		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
	Textile Materials		
1.	HDPE/PP Woven sacks for packaging sacks for packaging of 50 kg food grains	Exposure to UV radiation and weathering	IS:14887: 2014
2.		Picks	IS:14887: 2014
3.	Polyethylene (HDPE) Polypropylene (PP) woven sacks for packaging of 50 kg Food Grains	Mass	IS:1964: 2001
4.	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
5.		Minimum breaking strength of bottom seam	IS 9030: 1979
6.		Avg. breaking strength before UV exposure	IS 1969 part 1: 2009



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
7.		Bottom seam	IS 14968: 2015
8.		Capacity	14968: 2015
9.		Dimension	IS 14968: 2015
10.		Elongation at break of fabric	IS 1969 part 1: 2009
11.		Ends/dm	IS 14968: 2015
12.		Fabric	IS 14968: 2015



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
13.		Liner	IS 14968: 2015
14.		Mass of sack with liner	IS 1964: 2001
15.		Mass of Un-laminated sacks	IS 1964: 2001
16.		Mouth	IS 14968: 2015
17.		Picks/dm	IS 14968: 2015
18.	Textiles High Density Polyethylene (HDPE) Polypropylene (PP) woven sacks for packaging of 50 kg Food Grains	Breaking strength of Bottom Seam	IS:9030: 1979



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
19.		Dimension	IS:14887: 2014
20.		Elongation at break	IS:1969 (Part-1): 2009
21.		Ends/dm	IS:14887: 2014
22.		Breaking Strength	IS:1969 (Part 1): 2009
23.	Textiles High density Polyethylene (HDPE) Polypropylene(PP) woven sacks for Packaging of 50 kg Food Grains-specification	Anti-slip pattern	IS:14887: 2014



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
24.		Identification	ASTME 1252: 2013
25.	Textiles High density Polyethylene (HDPE) Polypropylene(PP) woven sacks for Packaging of 50 kg Food Grains	Linear Density	IS14887: 2014
26.		Linear Density	IS:6192: 1994
27.		Linear Density	IS:11197: 2014
28.		Mouth	IS:14887: 2014



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
29.		Sacks Bottom Seam	IS:14887: 2014
30.		Tape Width	IS:6192: 1994
31.		Tape Width	IS:11197: 1985
32.		Tenacity	IS:6192: 1994
33.		Thickness	IS:6192: 1994



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
34.		Width of Tape	IS:6192: 1994
35.		Width of Tape	IS:14887: 2014
36.	Textiles-High Density Polyethylene (HDPE)/Polypropylene 10kg,15kg, 20kg, 25kg and 30kg Food Grains	Average Breaking Strength of Fabric, N a)Length Wise	IS:1969 (Part 1): 2009
37.		Average Breaking Strength of Fabric, N b)Width Wise	IS 1969 (Part 1): 2009
38.		Bottom Seam	IS:10789: 2000



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
39.		Breaking Strength of Fabric after exposure to UV radiation and Weathering	IS:16208 (Annex C) + A 2: 2015
40.		Capacity	IS:16208: 2015
41.		Dimension in cm (a) Inside Length	IS:16208: 2015
42.		Dimension in cm b) Inside Width	IS 16208 : 2015
43.		Elongation of break of the fabric, % a)Length Wise b)Width Wise	IS 1969 (Part 1): 2009



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
44.		Ends, per dm	IS:16208: 2015
45.		Fabric (tape Width)	IS 6192: 1994
46.		Mass of Sack	IS:1964: 2001
47.		Minimum Breaking Strength of Bottom Seam	IS 9030: 1979
48.		Mouth	IS 16208 : 2015



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
49.		Picks per dm	IS 16208 : 2015
50.		Raw Material	IS 16208: 2015
51.		Sacks	IS 16208: 2015
52.	Textiles-High Density polyethylene/Polypropylene (PP)Woven Sacks for packing 50kg Food Grains	identification	ASTM E 1252: 1998
53.		Linear Density	IS 11197: 2014
54.		Linear Density	IS 6192: 1994



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
55.		Linear Density	IS:6192: 1994
56.		Tape Width	IS:11197: 1985
57.		Tenacity	IS:6192: 1994
58.		Thickness	IS:6192: 1994
59.		Width	IS:6192: 1994
60.		Width of Tape	IS 6192: 1994



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Mechanical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
61.		Width of Tape	IS 11197: 1985

