National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : POLYMER TESTING LABORATORY, CIPET:SARP-APDDRL, PLOT NO.- 7P, HI-TECH DEFENCE & AEROSPACE PARK (IT SECTOR), BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- PLASTIC & RESINS	Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	Resistance to Chemical Action	IS 15907 (Annex-E)
2	CHEMICAL- PLASTIC & RESINS	Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	Resistance to Environmental Stress Cracking	IS 15907 (Annex-D)
3	CHEMICAL- PLASTIC & RESINS	Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	UV Resistance test	IS 15907 (Annex-B)
4	CHEMICAL- PLASTIC & RESINS	Containers for packaging of natural mineral water and packaged drinking water	Resistance to Environmental Stress Cracking/ESCR Test	IS 8747 (Method 1)
5	CHEMICAL- PLASTIC & RESINS	Containers for packaging of natural mineral water and packaged drinking water	Water Potability Test	IS 15410 (Annex-B)
6	CHEMICAL- PLASTIC & RESINS	Glass Reinforced Polyester Sheet Moulding Compounds	Density of moulding	IS 8543(Part 1/Sec 2)
7	CHEMICAL- PLASTIC & RESINS	Glass Reinforced Polyester Sheet Moulding Compounds	Heat Distortion Temperature	IS 13411 (Annex-H)
8	CHEMICAL- PLASTIC & RESINS	HDPE pipes for sewerage	Longitudinal Reversion Test	IS 14333 (Annex-C)
9	CHEMICAL- PLASTIC & RESINS	HDPE/PP Woven sacks for filling sand	UV Resistance Test(UV-B LAMP)	IS 14252 (Annex-C)
10	CHEMICAL- PLASTIC & RESINS	HDPE/PP Woven sacks for packaging 10kg,15kg,20kg,25kg and 30 kg food grains	UV Resistant Test	IS 16208 (Annex-C)
11	CHEMICAL- PLASTIC & RESINS	HDPE/PP Woven sacks for packaging 50kg/25kg sugar	UV -Resistance test	IS 14968(Annex-C)
12	CHEMICAL- PLASTIC & RESINS	HDPE/PP Woven sacks for packing 50kg food grains	UV resistance test	IS 14887 (Annex-C)
13	CHEMICAL- PLASTIC & RESINS	HDPE/PP woven sacks for packing of 50kg cement	UV Resistance(UV-B LAMP)	IS 11652 (Annex-F)
14	CHEMICAL- PLASTIC & RESINS	High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilizers	UV resistance Test (UV- B LAMP)	IS 9755 (Anneex-D)
15	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment-Sprinkler Pipes	Longitudinal Reversion Test	IS 14151(Part 1) (Cl-7.2)
16	CHEMICAL- PLASTIC & RESINS	Plastics & Polymeric Products	Artificial Weathering by Xenon Lamp	ASTM D 2565
17	CHEMICAL- PLASTIC & RESINS	Plastics & Polymeric Products	Artificial Weathering by Xenon Lamp	ASTM D 4459
18	CHEMICAL- PLASTIC & RESINS	Plastics & Polymeric Products	Artificial Weathering by Xenon Lamp	ASTM G 155

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19	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Glass Transition Temperature, Melting Temperature & Crystallisation Temperature	ASTM D 3418
20	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Identification of Polymer (by FTIR)	ASTM D 5477
21	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Identification of Polymer (by FTIR)	ASTM E 1252
22	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Loss on drying by TGA	ASTM E 1131
23	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Loss on drying by TGA	ASTM E 1868
24	CHEMICAL- PLASTIC & RESINS	Polyethyelne Films and sheets,Polyethylene Pipes for water supply,Textiles-Tarpaulins made from high desity polyethylene woven fabrics, High density Polyethylene films, Rotational Moulded Polyethylene water storage tanks, Polyethyene pipes for irrigation Laterals,Irrigation Equipment-Sprinkler Pipes, HDPE pipes for sewerage	Carbon Black Content	IS 2530(Cl-10)
25	CHEMICAL- PLASTIC & RESINS	Polyethylene Films and sheets, High density Polyethylene films	Melt Flow Index	IS 13360 (Part 4/Sec 1)
26	CHEMICAL- PLASTIC & RESINS	Polyethylene Films and sheets, High density Polyethylene films, Rotational Moulded Polyethylene water storage tanks,Polyethyene pipes for irrigation Laterals,Irrigation Equipment-Sprinkler Pipes, HDPE pipes for sewerage	Carbon Black Dispersion	IS 2530 (Cl-16)
27	CHEMICAL- PLASTIC & RESINS	Polyethylene pipes for irrigation Laterals	Resistance to Environmental Stress Cracking/ESCR Test	IS 12786 (Annex-D)
28	CHEMICAL- PLASTIC & RESINS	Polyethylene pipes for irrigation Laterals	Reversion Test	IS 12786 (Cl-7.2)
29	CHEMICAL- PLASTIC & RESINS	Polyethylene pipes for irrigation Laterals	Toluene extraction	IS 12786 (Annex-A)
30	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes For the supply of Gaseous Fuels	Resistance to Weathering	IS 14885 (Annex-F)
31	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes For the supply of Gaseous Fuels	Reversion Test	IS 14885 (Annex-C)
32	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes For the supply of Gaseous Fuels	Thermal Stability to Oxidation	IS 14885 (Annex-D)
33	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes For the supply of Gaseous Fuels	Volatile Matter Content	IS 14885 (Annex-H)
34	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for water supply	Longitudinal Reversion Test	IS 4984 (Annex-F)

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35	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for water supply	Thermal stability(OIT)	IS 4984 (Annex-B)
36	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for water supply	Volatile matter	IS 4984 (Annex-C)
37	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for water supply	Water content	IS 4984 (Annex-D)
38	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for water supply, Rotational Moulded Polyethylene water storage tanks, Polyethylene Films	Overall Migration	IS 9845
39	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for water supply,Rotational Moulded Polyethylene water storage tanks, Irrigation Equipment-Sprinkler Pipes, HDPE pipes for sewerage, Polyethylene Pipes For the supply of Gaseous Fuels	Melt Flow Rate	IS 2530 (CL-7)
40	CHEMICAL- PLASTIC & RESINS	Polymeric Coatings	Artificial Weathering by UV-B Lamp	ASTM D 4587
41	CHEMICAL- PLASTIC & RESINS	Polymeric Products	Artificial Weathering by UV-B Lamp	ASTM D 5208
42	CHEMICAL- PLASTIC & RESINS	Polymeric Products	Artificial Weathering by UV-B Lamp	ASTM G 151
43	CHEMICAL- PLASTIC & RESINS	Polymeric Raw Materials & Products	Heat Deflection Temperature	ASTM D 648
44	CHEMICAL- PLASTIC & RESINS	Polymeric Raw Materials & Products	Melt Flow Rate	ASTM D 1238
45	CHEMICAL- PLASTIC & RESINS	Polymeric Raw Materials & Products	Resistance to Environmental Stress Cracking /ESCR Test	ASTM D 1693
46	CHEMICAL- PLASTIC & RESINS	Polymeric Raw Materials & Products	Thermal Stability (OIT)	ASTM D 3895
47	CHEMICAL- PLASTIC & RESINS	Polymeric Raw Materials & Products	Vicat Softening Temperature	ASTM D 1525
48	CHEMICAL- PLASTIC & RESINS	Textiles-Tarpaulins made from high desity polyethylene woven fabrics	Xenon Arc Weathering	IS 13162(Part 2)
49	CHEMICAL- PLASTIC & RESINS	U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system ,UPVC Injection moulded fittings for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Resistance to Sulphuric Acid	IS 12235(Part 7)
50	CHEMICAL- PLASTIC & RESINS	U-PVC screen and casing pipes for Bore/Tubewells,U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Vicat Softening Point	IS 12235(Part 2)

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51	CHEMICAL- PLASTIC & RESINS	Unplasticized PVC Pipes for potable water supplies, U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Reversion Test	IS 12235(Part 5)
52	CHEMICAL- PLASTIC & RESINS	Unplasticized PVC Pipes for potable water supplies, Unplasticized Polyvinyl Chloride(UPVC) single wall corrugated pipes for drainage, U-PVC screen and casing pipes for Bore/Tubewells, U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	K-Value	IS 4669
53	CHEMICAL- PLASTIC & RESINS	Unplasticized PVC Pipes for potable water supplies, UPVC Injection moulded fittings for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Vicat Softening Temperature	IS 6307 (Appendix-B)
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulating materials	Dissipation Factor	ASTM D 150
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulator Material	Dielectric Strength	ASTM D 149
56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulator Material	Surface Resistivity	ASTM D 257
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical Insulator Material	Volume Resistivity	ASTM D 257
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Glass Reinforced Polyester Sheet Moulding Compounds	Dielectric Constant	IS 6262
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Glass Reinforced Polyester Sheet Moulding Compounds	Dissipation factor	IS 4486
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Glass Reinforced Polyster Sheet Moulding Compounds	Surface Resistivity	IS 3396
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Glass Reinforced Polyster Sheet Moulding Compounds	Volume Resistivity	IS 3396
62	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	Dimension Measurement	IS 15907 (Cl-6.1)
63	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	Puncture Resistance	IS 15907 (Annex-C)

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64	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	Tear Strength	IS 7016(Part 3)(Method A2)
65	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	Welded Seam strength	IS 1969 (Part 1)
66	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Containers for packaging of natural mineral water and packaged drinking water	Capacity	IS 2798 (Cl-5)
67	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Containers for packaging of natural mineral water and packaged drinking water	Drop Test	IS 2798 (Cl-8)
68	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Containers for packaging of natural mineral water and packaged drinking water	Leakage Test	IS 2798 (Cl-6)
69	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Containers for packaging of natural mineral water and packaged drinking water	Transparency	ASTM D 1003
70	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Containers for packaging of natural mineral water and packaged drinking water	Wall thickness	IS 2798 (Cl-4.5)
71	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	GLASS REINFORCED POLYESTER SHEET MOULDING COMPOUNDS	Flexural Strength	IS 13411 (Annex-F)
72	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	GLASS REINFORCED POLYESTER SHEET MOULDING COMPOUNDS	Modulus of elasticity	IS 13360(Part 5/Sec 2 &3)
73	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	GLASS REINFORCED POLYESTER SHEET MOULDING COMPOUNDS	Tensile Strength	IS 13360(Part 5/Sec 2 & 3)
74	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	GLASS REINFORCED POLYESTER SHEET MOULDING COMPOUNDS	Water absorption	IS 13411 (Annex-D)
75	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE pipes for sewerage	Dimension Measurement	IS 14333 (Cl-6)
76	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE pipes for sewerage	Internal Pressure Creep Rupture	IS 14333 (Cl-8.1)(Annex-B)
77	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for filling sand	Dimension Measurement	IS 14252(Annex-B)
78	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for filling sand	Ends per dm & Picks per dm	IS 14252 (Annex-B)
79	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for filling sand	Mass of sack	IS 14252 (Annex-E)
80	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for packaging 10kg,15kg,20kg,25kg and 30 kg food grains	Dimension Measurement	IS 16208 (Annex-B)
81	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for packaging 10kg,15kg,20kg,25kg and 30 kg food grains	Ends per dm & Picks per dm	IS 16208 (Annex-B)
82	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for packaging 50kg/25kg sugar	Dimension Measurement	IS 14968 (Annex-B)

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83	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for packaging 50kg/25kg sugar	Ends per dm & Picks per dm	IS 14968 (Annex-B)
84	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for packing 50kg food grains	Dimension Measurement	IS 14887 (Annex-B)
85	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP Woven sacks for packing 50kg food grains	Ends per dm & Picks per dm	IS 14887 (Annex-B)
86	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP woven sacks for packing of 50 kg cement	Dimension Measurement	IS 11652 (Annex-B)
87	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE/PP woven sacks for packing of 50kg cement	Ends per dm & Piks per dm	IS 11652 (Annex-B)
88	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene crates for milk satchets	Dimensional Stability	IS 11584 (Ap.D)
89	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene crates for milk satchets	Resistance to applied Load	IS 11584 (Ap.B)
90	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene crates for milk satchets	Resistance to drop	IS 11584 (Ap.C)
91	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene crates for milk satchets	Resistance to stress	IS 11584 (Ap.A)
92	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene films	Dimension Measurement	IS 10889(Annex-A)
93	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene films	Yield Tolerance	IS 10889 (Annex-B)
94	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene Woven sacks for packing flour	Dimension Measurement	IS 12100 (Cl-3.2)
95	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene Woven sacks for packing flour	Mass	IS 12100 (Ap.-A)
96	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilisers	Dimension Measurement	IS 9755 (Anneex-B)
97	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilisers	Ends per dm/Picks per dm	IS 9755 (Anneex-B)
98	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilisers	Mass of sacks	IS 9755 (Anneex-E)
99	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilizers, HDPE/PP woven sacks for packing of 50kg cement,HDPE/PP Woven sacks for filling sand,HDPE/PP Woven sacks for packing 50kg food grains,HDPE/PP Woven sacks for packaging 50kg/25kg sugar,Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture ,HDPE/PP Woven sacks for packaging 10kg,15kg,20kg,25kg and 30 kg food grains	Mass of fabric /sack	IS 1964

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100	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilizers,HDPE/PP woven sacks for packing of 50kg cement,HDPE/PP Woven sacks for filling sand, HDPE/PP Woven sacks for packing 50kg food grains, HDPE/PP Woven sacks for packaging 50kg/25kg sugar,HDPE/PP Woven sacks for packaging 10kg,15kg,20kg,25kg and 30 kg food grains,High density Polyethylene Woven sacks for packing flour	Breaking Strength of seam	IS 9030
101	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Diameter of socket of cap	IS 7834 (Part 8) (Cl-2.2.2)
102	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Dimension Measurement	IS 7834 (Part 1) (Cl-5) (Table-1)
103	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Dimensions for laying length of 45° elbows	IS 7834 (Part 2) (Cl-2.2.2) (Table-1)
104	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Dimensions for laying length of 45° Tees	IS 7834 (Part 5) (Cl-2.2.2) (Table-1)
105	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Dimensions for laying length of 90° elbows	IS 7834 (Part 3) (Cl-2.2.2) (Table-1)
106	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Dimensions for laying length of 90° Tees	IS 7834 (Part 4) (Cl-2.2.2) (Table-1)
107	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Dimensions for laying length of socket	IS 7834 (Part 6)(Cl-2.2.2) (Table-1)
108	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Dimensions for laying length of Union	IS 7834 (Part 7)(Cl-2.2.2) (Table-1)
109	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Opacity	IS 7834 (Part 1)(Ap.D)
110	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Short term hydraulic test	IS 7834 (Part 1) (Ap.D)
111	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Stress Relief Test	IS 7834(Part 1)(Ap.A)
112	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Dimension Measurement	IS 14151(Part 1)(Cl-5)(Table-1)
113	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Fusion Compatibility Test	IS 14151(Part 1) (Cl-7.4)
114	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Hydraulic Proof Test	IS 14151(Part 2) (Cl-6.1.2)
115	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Internal Pressure Creep Rupture Test	IS 14151(Part 1) (Cl-7.1) (Annex-A)
116	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Leakage Test	IS 14151(Part 2) (Cl-6.1.1)

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117	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Shore A Hardness	IS 14151(Part 2) (Cl-4.1.5)
118	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Tensile Test	IS 14151(Part 1) (Cl-7.3)
119	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Weldability Test	IS 14151(Part 1) (Cl-7.1)
120	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Ageing test	IS 7016(Part 8) (Cl-4)
121	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Mass	IS 7016(Part 1)
122	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Strength of joints/seams	IS 14611 (Annex-C)
123	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Trapozoid Tear strength	IS 14611(Annex-F)
124	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Impact Resistance for Films by Falling dart Impact Method	ASTM D 1709
125	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Specular Gloss	ASTM D 2457
126	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Specular Gloss	ASTM D 523
127	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Tear Resistance	ASTM D 1922
128	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Tensile Strength	ASTM D 882
129	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Bulk Density	ASTM D 1895
130	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Co-efficient of friction	ASTM D 1894
131	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Compressive strength	ASTM D 695
132	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Elongation at Break	ASTM D 882
133	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Flexural Modulus	ASTM D 790
134	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Flexural Strength	ASTM D 790
135	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Rockwell Hardness	ASTM D 785

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136	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Shear strength	ASTM D 732
137	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Shore Hardness	ASTM D 2240
138	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Specific Gravity & Density	ASTM D 792
139	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Tensile Modulus	ASTM D 638
140	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Tensile Strength	ASTM D 638
141	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics & Plastics Product	Water Absorption	ASTM D 570
142	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets	Dart Impact Strength	IS 13360(Part 5/Sec 6) (Method A)
143	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets	Puncture Resistance	IS 2508 (Annex-C)
144	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets	Tear Resistance	IS 2508 (Annex-B)
145	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets, High density Polyethylene films,Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Elongation at break	IS 13360(Part 5/Sec 1)
146	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets, High density Polyethylene films,Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Elongation at break	IS 13360(Part 5/Sec 3)
147	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets, High density Polyethylene films,Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Impact Resistance by Film by Falling Dart Impact Method	IS 13360(Part 5/Sec 6) (Method B)
148	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets,High density Polyethylene films, Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Tensile Strength at break	IS 13360(Part 5/Sec 1)
149	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets,High density Polyethylene films, Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films	Tensile Strength at break	IS 13360(Part 5/Sec 3)
150	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets,High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilizers	Determination of Thickness	IS 2508 (Annex-A)

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151	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets,Textiles-Tarpaulins made from high density polyethylene woven fabrics, Multilayered Cross laminated Sheets/Tarpaulins/Covers/Agricultural films, Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture	Ageing test	IS 7016(Part 8) (Cl-4)
152	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Films and sheets,Unplasticized Polyvinyl Chloride(UPVC) single wall corrugated pipes for drainage,High density Polyethylene films	Specific Gravity & Density	IS 13360(Part 3/Sec 1)
153	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipes for irrigation Laterals	Coiling	IS 12786(Cl-9)
154	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipes for irrigation Laterals	Dimension Measurement	IS 12786 (Cl-5)(Table-1)
155	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipes for irrigation Laterals	Internal Creep Rupture Tests	IS 12786 (Cl-7.1) (Annex-C)
156	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipes for irrigation Laterals	Tensile Test	IS 12786 (Cl-7.3)
157	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes For the supply of Gaseous Fuels	Dimension	IS 14885 (Cl- 6) (Table-3,4,5,6)
158	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes For the supply of Gaseous Fuels	Tensile Test	IS 14885 (Annex-J)
159	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for water supply	Dimension Measurement	IS 4984 (Cl-7.4)
160	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for water supply	Elongation at break	IS 4984 (Annex-H)
161	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for water supply	Internal Pressure Creep Rupture	IS 4984 (Annex-E)
162	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for water supply	Slow crack growth rate	IS 4984 (Annex-J)
163	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for water supply	Tensile strength for Butt-fusion	IS 4984 (Annex-G)
164	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for water supply,High density Polyethylene crates for milk satchets,Rotational Moulded Polyethylene water storage tanks,Irrigation Equipment-Sprinkler Pipes,HDPE pipes for sewerage,Polyethylene Pipes For the supply of Gaseous Fuels	Specific Gravity & Density	IS 7328 (Annex-A)
165	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Dart impact resistance	IS 2508 (Ap-A-6)
166	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Dimension Measurement	IS 11805 (Cl-5.5,5.6)

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167	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Drop Test	IS 11805 (Annex-A)
168	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Elongation at break	IS 2508 (Ap-A-4)
169	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Ink adhesion of milk pouches	IS 11805 (Annex-B)
170	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Leak Test	IS 11805 (Cl-8.1)
171	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Slip	IS 2508 (Ap-A-7)
172	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pouches for packaging liquid milk	Tensile strength	IS 2508 (Ap-A-4)
173	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Elongation at break	ASTM D 638
174	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Flammability	ASTM D 635
175	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Flammability	UL-94
176	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Capacity	IS 12701 (Cl-5.1,5.2)
177	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Dimension Measurement	IS 12701 (Table-1),(Table-2)
178	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Flexural Modulus	IS 13360(Part 5/Sec 7)
179	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Mass	IS 12701(Table-1 & 2)
180	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Resistance to deformation	IS 12701 (Annex-B) (Method 1&2)
181	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Resistance to Impact of Tank	IS 12701 (Annex-C)
182	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Tensile strength	IS 8543(Part 4/Sec 1)
183	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene water storage tanks	Test for Top load resistance	IS 12701 (Cl-7.3)
184	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics	Impact Resistance for Films by Falling dart Impact Method	IS 7903 (Annex-E)
185	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics	Mass of finished tarpaulin	IS 7903 (Annex-B)

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186	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics	Mass of laminated fabric	IS 7903 (Annex-C)
187	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics	Puncture resistance	IS 7903 (Annex-D)
188	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics	Trapozoid Tear strength	IS 14293
189	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics	Welded seam strength	IS 1969(Part 1
190	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics,High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilizers, HDPE/PP Woven sacks for filling sand,HDPE/PP Woven sacks for packing 50kg food grains,HDPE/PP Woven sacks for packaging 50kg/25kg sugar ,Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture ,HDPE/PP Woven sacks for packaging 10kg,15kg,20kg,25kg and 30 kg food grains	Elongation at break	IS 1969(Part 1)
191	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textiles-Tarpaulins made from high density polyethylene woven fabrics,High density Polyethylene(HDPE)/Polypropylene(PP) woven sacks for packing fertilizers, HDPE/PP wovensacks for packing of 50kg cement,HDPE/PP Woven sacks for filling sand,HDPE/PP Woven sacks for packing 50kg food grains,HDPE/PP Woven sacks for packaging 50kg/25kg sugar, Agro Textile-High density Polyethylene (HDPE) woven beds for vermiculture ,HDPE/PP Woven sacks for packaging 10kg,15kg,20kg,25kg and 30 kg food grains,High density Polyethylene Woven sacks for packing flour	Breaking strength	IS 1969(Part 1)
192	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Axial Shrinkage	IS 13592 (Annex-B)
193	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Dimension Measurement	IS 13592 (Table -1,2,3)
194	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Effect of sunlight	IS 13592 (Cl-8.5)
195	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Water Tightness of Joint	IS 13592 (Cl-11)

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196	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system ,UPVC Injection moulded fittings for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Stress Relief Test	IS 12235(Part 6)
197	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC screen and casing pipes for Bore/Tubewells	Thread Checking	IS 12818 (Cl-8)
198	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC screen and casing pipes for Bore/Tubewells	Thread Checking	IS 554
199	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC screen and casing pipes for Bore/Tubewells,U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Resistance to external blow at 0 deg. C	IS 12235(Part 9)
200	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	U-PVC screen and casing pipes for Bore/Tubewells,U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Tensile Test	IS 12235(Part 13)
201	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for potable water supplies	Opacity	IS 12235(Part 3)
202	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for potable water supplies	Resistance to external Blow at 0 degree C	IS 4985 (Annex-C)
203	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for potable water supplies	Resistance to Internal hydrostatic Pressure Test	IS 12235(Part 8/Sec 1)
204	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for potable water supplies	Resistance to Internal hydrostatic Pressure Test	IS 12235(Part 8/Sec 4)
205	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for potable water supplies,U-PVC screen and casing pipes for Bore/Tubewells,U-PVC pipes for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Dimension Measurement	IS 12235(Part 1)
206	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for ptable water supplies, U-PVC screen and casing pipes for Bore/Tubewells	Specific Gravity & Density	IS 12235(Part 14)
207	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Injection moulded fittings for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Dimension Measurement	IS 14735 (Cl-7)
208	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Injection moulded fittings for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Impact Test (Drop Test)	IS 14735 (Annex-C)
209	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Injection moulded fittings for soil and waste discharge system for inside and outside buildings including ventilation and rain water system	Water tightness of joint	IS 14735 (Annex-D)

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NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.