

Laboratory CIPET: Centre for Skilling and Technical Support (CSTS), Plot No. J-3/2, MIDC Industrial Area, Chikalthana, Aurangabad, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8227

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I. PLASTIC & RESINS				
A. Resin				
1.	PVC & Its Copolymer Resin	K-value	IS 4669-68 (RA-2008) ASTM D 1785-15 ASTM D1243- 08	50 to 70
2.	PVC Resin	Sulphated Ash Content	IS 4669: 1968 (RA-2003)	0.01% to 80 %
3.	Unsaturated Polyester Resin System	Volatile content	IS 6746:1994 (RA-2005) Annex-C	1 mg/kg to 350 mg/kg
4.	Chlorinated PVC Compound Used for Pipes & Fittings	Chlorine Content	IS 15225:2002 (RA-2008)	0.01% to 70%
	Chlorinated Polyvinyl Chloride Pipes for potable hot and cold water distribution supplies		IS 15778:2007 Annex-B	
B. Plastic Film				
1.	Low Density Polyethylene Film	Carbon Black Content	IS 2508-2016 / IS 2530-63 (RA-2008) ASTM D 1603-14	0.01% to 60%
		Carbon Black Dispersion	IS 2530-63 ASTM D 1603-06 IS 7328-74 Annex. B	Qualitative
		Ash Content / filler content	IS 14887:2014 Annex D IS 2508:2016 (Black)/ ASTMD 5630-13/ ISO 3451 (Part 1:2008	0.01% to 80 %

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C.	Raw Material			
1.	Plastic Product and Granules	Melting point	ASTM D 3418-15	- 90°C to 400 °C
		Glass Transition temperature		-90°C to 350 °C
2.	Plastic Product and Granules	Identification of Plastics	Identification of Plastics (D. Braun/CIPET)	Qualitative
3.	Chlorinated PVC Compounds Used for Pipes and Fittings Plastic Product and Granules High Density Polyethylene (HDPE) / Polypropylene	Ash Content/ filler content	IS 15225:2002 (RA-2008) / ASTM D 5630-13/ISO 3451 (Part 1:2008) IS 14887: 2014	0.01% to 80 %
4.	HDPE Material for Moulding & Extrusion/Plastic Granules	Carbon black content	IS 7328:1992 (RA-2008)	0.01% to 60 %
D.	Plastics And Polymers			
1.	HDPE Pipes for potable water supplies, Polyethylene Containers for The Transport of Materials– Specification	Carbon Black Content	IS 4984-2016	0.01% to 60 %

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Textiles-Tarpaulines Made From High Density Polyethylene Woven Fabric	Carbon Black Content	IS 7903:2011	0.01% to 60 %
	Roto Moulded PE Water Storage Tanks		IS 12701-96 (RA-2006)	
	PE Pipes for Irrigation Laterals		IS 12786-89 (RA-2009)	
	Irrigation Equipment – Emitting Pipe		IS 13488:2008	
	PE Pipe for Sprinkler Irrigation System – Pipe		IS 14151 (Part-1):1999 (RA-2009)	
	PE Pipe for Sprinkler Irrigation System – Coupler		IS 14151 (Part-2) : 2008	
	HDPE Pipe for Sewerage		IS 14333-96 (RA-2012)	
	Polyethylene Microtubes for Micro irrigation		IS 14482-97 (RA-2009)	
	PE/Al/PE composite pressure pipes for hot and cold water supplies		IS 15450-2004 (RA-2009)	
	Textiles-Laminated HDPE Fabric (Geo membrane) for Water proof lining		IS 15351-2015 IS 7903 – 2017 IS 15907 - 2010	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	High Density Polyethylene (HDPE) Geo-membranes for Lining	Carbon Black Content	IS 16352:2015	0.01% to 60 %
2.	HDPE Pipes for Potable Water Supplies	Carbon Black Dispersion	IS 4984:2016	Qualitative
	Irrigation Equipment – Polyethylene pipes for irrigation Laterals – specification		IS 12786:1989 (RA-2009)	
	Sprinkler Pipes		IS 14151 (Part 1): 1999 – (RA -2009)	
	PE Pipe for Sprinkler Irrigation System – Coupler		IS:-14151 (Part 2) : 2008	
	HDPE Pipe for Sewerage		IS 14333-96 (RA-2012)	
	Polypropylene Random Copolymer Pipes for hot and cold water supplies Specification		IS 15801-2008	
	High Density Polyethylene (HDPE) Geo-membranes for Lining		IS 16352:2015	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	PE/Al/PE Composite pressure pipes for hot and cold water supplies	Carbon Black Dispersion	IS 15450-2009	Qualitative
	Polyethylene Micro tubes for Micro irrigation		IS 14482-97 (RA-2009)	
	Textiles- Laminated HDPE woven Fabric (Geo membrane) for Water proof lining		IS 15351-2015 IS 7903 - 2017 IS 15907 - 2010	
	Irrigation Equipment – Emitting Pipe		IS 13488:2008	
3.	HDPE Pipes for potable water supplies	Overall migration test	IS 4984-2016 IS 9845-1998 (RA 2015) IS 9833-1981	0.001 mg/dm ² to 100 mg/dm ² & 0.001 mg/l to 100 mg/l
	Roto Moulded PE Water Storage Tanks		IS 12701-96 (RA-2006)	
	Polypropylene Random Copolymer (PPRC) Pipes for hot and cold supplies		IS 15801-08	
	Containers for packing of natural mineral water & Polyalkylene terephthalates		IS 15410:03 (RA-2009) IS-12252-1987	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	(PET & PBT) for their safe use in contact with foodstuffs, pharmaceuticals and drinking water	Overall migration test		0.001 mg/dm ² to 100 mg/dm ² & 0.001 mg/l to 100 mg/l
	PE/Al/PE composite pressure pipes for hot and cold water supplies		IS 15450-04 (RA-2009)	
	Polyethylene Flexible pouches for the packing of natural mineral water and packaged drinking water		IS 15609-05 (RA-2010)	
4.	UPVC Pipes for potable water supplies	Sulphated Ash Content	IS 4985:2000 (RA-2010) (Annex-B)	0.1 % to 25 %
	UPVC Injection Moulded Fittings for SWR		IS 14735:99 (RA-2015)	
5.	High Density Polyethylene (HDPE) / Polypropylene (PP) Woven Sacks For Packing 50 kg/ 25 kg Food grains	Ash Content/ filler content	IS 14887:2014	0.01% to 80 %

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	High Density Polyethylene (HDPE) / Polypropylene (PP) Woven Sacks for Filling Sand	Ash Content/ filler content	IS 14252: 2015	0.01% to 80 %
	HDPE/PP Woven Sacks for Packing 50 kg/ 25 kg Sugar		IS 14968:2015	
	High Density Polyethylene (HDPE)/ Polypropylene		IS 16208:2015	
	(PP) Woven Sacks for Packaging 10 kg, 15 kg, 20 kg, 25 kg and 30 kg Food grains HDPE/PP Woven Sacks for Packaging 25Kg Polymer materials		ISO 3451 Pt.1-2008 IS 16703 – 2017	
	Determination of Ash/Filler for Plastic granules & Products		IS 7903-17, IS 9755-2015 IS 15351-2015,) / ASTM D 5630-13/ISO 3451 (Part 1:2008	
6.	Glass Reinforced Polymer/ Polyester Sheet Molding Compound(SMC)	Glass Content	IS 13410:1992(RA-2008)/ IS 13411:1992 Annex-A	10 % to 60 %
7.	Unplasticized Polyvinyl Chloride (PVC-U) pipes for soil and waste	Resistance to Sulphuric acid	IS 13592:2013	0.0001 g to 200 g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	discharge systems inside buildings including ventilation and rainwater system	Resistance to Sulphuric acid	IS 13592:2013	0.0001 g to 200 g
8.	Polyethylene Containers For The Transport of Materials	Susceptibility to Environmental Stress Cracking /Environmental stress cracking test	IS:6312-1994 (RA-2010) Annex-K	Qualitative
	PE Pipes for Irrigation Laterals		IS 12786-89 (RA-2009) Annex-D	
	Irrigation Equipments – Emitting pipe		IS:13488-2008	
	Polyethylene Microtubes for Micro irrigation		IS 14482:1997 (RA-2009)	
	HDPE woven beds for vermiculture		IS 15907:2010	
	Agro Textiles – HDPE laminated woven Lay Flat Tube for Irrigation Purpose – specification		IS 16190:2014 Annex-D	
	High Density Polyethylene (HDPE) Geo - membranes for Lining		IS 16352:2015	
9.	Containers for packing of natural mineral water	Water Potability Test	IS 15410:2003 (RA-2009) Annex-B	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Polyethylene Flexible pouches and container for the packing of natural mineral water and packaged drinking water	Water Potability Test	IS 15609:2005 (RA-2010) Annex-E/ IS:12701:1996	Qualitative
10.	PVC Geo membranes for lining	Volatile loss / Volatile content/ Toluene Extract	IS 15909-2015 IS 3464 -1986	1 mg/kg to 350 mg/kg
	Polyethylene Pipes for the Supply of Gaseous Fuels		IS 14885:2001 (RA-2012)	
	HDPE Pipes for potable water supplies		IS 4984:2016 Annex-C	
	Irrigation Equipment – Polyethylene pipes for irrigation Laterals & Emitting Pipes – specification		IS 12786 - 1989 IS 13488 - 2008 IS 12786: 1989 (Annexure - A)	
11.	Water Absorption of Plastics	Water Absorption	ASTM D 570	0.001% to 100%
	Industrial Safety Helmet		IS 2925:1984 (RA-2015)	
	Glass Reinforced Polyester Sheet Molding Compound (SMC)		IS 13410:1992 (RA-2008) / IS 13411:1992 Annex-D (RA-2008)	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Hot Press Moulded Thermosetting Glass Fibre Reinforced Polyester Resin (GRP) Sectional Water Storage Tank	Water Absorption	IS 14399:1996 (Pt. 1 & 2) (RA-2006) / IS 6746:1994 (RA-2010)	0.001% to 100%
12.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage-specification, Part 1:Pipes and Fittings with Smooth External Surface Type A / with Non-Smooth External Surface, TypeB	Resistance to Dichloromethane	IS 16098:2013 / IS 12235:2004 (Part 11) (RA-2009)	Qualitative
	Unplasticized Polyvinyl Chloride (PVC-U) pipes for soil and waste discharge systems inside buildings including ventilation and rainwater system		IS 13592:2013	

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13.	UPVC Injection Moulded Fittings for SWR	TiO ₂ Content	IS 14735:99 (RA-2009) Annex-A	0.5% to 12.0 %
	Fibre Ropes Polyamide 3-, 4-, 8- and 12-Strand Ropes		IS 4572:1992 (RA-2014)	
	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage and Sewerage Systems		IS 15328 (RA-2003)	
14.	PVC Pipes for Potable Water Supplies	Effect on Water (Lead) (Dialkyl Tin) (Cadmium) (Mercury) (Other toxic substances)	IS 4985:2000 (RA-2010) / IS 12235:2004 (Part 4,10, 11) (RA-2009)	0.001 mg/l to 100 mg/l
	Injection moulded PVC socket fitting with solvent cement joints for water supplies		IS 7834:1987 (Pt.1) (RA-2008) Appendix-C	
	UPVC Screen and Casing Pipes for Bore / Tube Well		IS 12818:2010	
	Solvent cement for use with unplasticized PVC pipe and fitting— Specification		IS 14182:1994 (RA-2010)	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Chlorinated Polyvinyl Chloride Pipes for potable hot and cold water distribution supplies	Effect on Water (Lead) (Di-alkyl Tin) (Cadmium) (Mercury) (Other toxic substances)	IS 15778:2007	0.001 mg/l to 100 mg/l
15.	HDPE Pipes for potable water supplies	Water Content	IS 4984:2016 Annex-D	1 mg/kg to 350 mg/kg
16.	PE/AL/PE composite pressure pipes for hot and cold water supplies	Thermal Stability to Oxidation/OIT	IS 15450:2004 (RA-2009)	1 min to 200 minutes
	Oxidation Induction time of poly olefins		ASTM D3895-14	
	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage - Specification, Pipes and Fittings with Smooth External Surface Type A & B		IS 16098:2013 Part-2 Annex-C	
	HDPE Pipes for Potable Water Supplies		IS 4984:2016 Annex-B	
	Polyethylene pipe for supply of gaseous fuels- Specification		IS 14885:2001 (RA-2012) Annex-D	

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17.	Polyvinyl Chloride (PVC) and It's Copolymers for Its Safe Use In Contact With Foodstuffs, Pharmaceuticals and Drinking Water	Residual Vinyl chloride monomer (RVCM) Content	IS 10151:1982 Annex. A (RA-2008)	0.001 mg/l to 5 mg/l
	Specifications for UPVC Screen and Casing Pipes for Bore / Tube Well		IS 12818-2010	
	Specifications for UPVC Pipes for Potable Water Supplies		IS 4985:2000 – (RA-2010)	
18.	HDPE Woven bed for Vermiculture & other plastics products	Resistance to chemical	IS 15907:2010 Annexure E/ ASTM D 543-14	Qualitative
19.	Polyethylene Pipes for the Supply of Gaseous Fuels	Pigment Dispersion	IS 14885:2001 (RA-2012) Annexure E, IS 15450:2004 Annexure C, IS 7903:2011.	Qualitative
	PE/AI/PE composite pressure pipes for hot and cold water supplies			

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<u>MECHANICAL TESTING</u>				
I.	PLASTICS AND PLASTIC PRODUCTS			
A.	Plastic Materials & Products			
1.	High Density Polyethylene (HDPE) Crates for Milk Sachets Polyethylene Cane-Specs Rotational Moulded Polyethylene Water Storage Tank Polyethylene Pouches for Packaging Liquid Milk Irrigation Equipment – Emitting Pipe Container for packaging of Natural Mineral Water & Packaged drinking water PE Flexible Pouches for the packaging of Natural Mineral Water Roto Moulded PE Water Storage	Length Height Overall Height Effective Height Thickness Diameter Width	IS 11584:1986 IS 5378 -1994 IS 12235 Part 1 2004 IS 11805:2007 IS 13488:2008 IS 15410:2003/IS 2798:1998 IS 15609:2005/IS 2508:2016 Annex A IS 12701:1996/IS 6312:1994 IS 2798:1998 (RA-2009) IS 6192-1994/IS 11197 – 1985/ IS 7903:2011 IS 4084:1978/IS 9755:2016 / IS 1954:1990 (RA-2009) IS 11652:2000 (RA-2010) IS 16703-2017 IS 14968:2015 Annex B IS 13262:1992 (RA-2008) IS 15351:2015 IS 13162 (Part 3) Method A IS 15909:2015 IS 15907:2010 IS 7071 (Part 2):1989 IS 4572:1992 (RA-2014) IS 8674:2013 IS 14929:2001 (RA-2007) IS 5175:2014/ IS 6899	0.001 mm to 30000mm 1 to 5000mm 0.001 to 100mm 1 to 600mm 1 to 3000mm

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	Tanks PE Containers for The Transport of Materials Rotational moulded PE water storage tanks Container for packaging of Natural Mineral Water & Packaged drinking water		IS 16190:2014 IS 16008:2016	
		Weight of tank	IS 1954:1990 (RA-2007) IS 14968:2015/IS 16208:2015 IS 12818:2010/IS 4984:2016 IS 5382: 1985/IS 4985 -2000/	1kg to 1000kg
		Brimful/Net/ Gross Capacity	IS 9271:2004/IS 7834: 1987Pt – 1 to8/IS 12786: 1989/ IS 13592: 2013/IS 14151 Pt – 1 & 2/IS 8008 Pt 2 & 3/	10 ml to 20,000 l
		Eyelet size Ends/Pics per dm	IS 8360 Pt – 3, 4, 5, 6 & 9 IS 14333:1996/IS 14885:2001/IS 12818:2010 IS 14735:1999/IS 14787:2000/	1 to 100
		Visual appearance Workmanship/Colour, test for internal dia	IS 15328/IS 15801/IS 15450/IS 14482/IS 15778	Qualitative
2.	Textiles Monoaxillay oriented HDPE tapes Tarpaulins Made From High Density Polyethylene Woven Fabric Polyethylene Films and Sheets HDPE /PP Woven Sacks For Packing Fertilizers, Filling Sand, Packaging	Mass	IS 4572:1992 (RA-2014) IS 7903:2011 IS 8069:1989 – RA 2007 IS 1964:2001 (RA-2010) IS 13217:1991/ (RA-2012) IS 14611:2016 IS 7016:2008 (Part 1) IS 11651:1986 (RA-2002) IS 11652:2000 (RA -2010) Annex.B IS 14252: 2015 Annex E IS 14887:2014 IS 14928:2001 (RA-2007) IS 8543:1977	10 mg to 710 g 1 kg to 1250 kg

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	25Kg Polymer materials, Woven Sacks for Packing Cement, Packaging of 50 kg food grains, Packaging Sugar Pressure Sensitive Adhesive Tapes With Plastic Base Laminated HDPE woven fabric for water proof lining PVC GEO - Membranes for Lining Agro Textile High Density Polyethylene (HDPE) woven Beds for Vermiculture Glass Reinforced Polyester Sheet Molding Compound (SMC) Polyamide multifilament ropes Poly ethylene ropes Polyolefin's copolymer ropes Poly propylene ropes Agro Textiles – HDPE laminated		IS 14968:2015 IS 15351:2015 IS 15907:2010 IS 16008:2016 (Part-1)	1 kg to 1250 kg
		GSM	IS 1954:1990 (RA-2007) IS 16008:2016 (pt-2) IS 16190:2014 IS 16208:2015 IS 16513:2016 IS 14929:2001 (RA2007) IS 5175:1992/ R 2014 IS 7071:1989(RA2008) Pt.2 IS 16703 -2017 IS 13410:1992 (RA-2008) IS 2925:1984 (RA 2010)/ IS 6899/IS 3730	10 GSM to 1000 GSM

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	woven Lay Flat Tube for Irrigation Purpose Shade Nets for Agriculture and Horticulture Purposes HDPE / PP Woven Sacks For Packing Fertilizers	GSM	IS 6899/IS 3730	10 GSM to 1000 GSM
3.	UPVC Pipes for Potable Water Supplies UPVC Single Wall Corrugated Pipes for Drainage UPVC Pipes for Soil and Waste Discharge System inside building ventilation & Rain Water UPVC Screen and Casing Pipes for Bore /Tube Well Injection moulded PVC socket fitting with solvent cement joints for water supplies UPVC Pipes (Ducts) and Fittings for Underground Tele-communications &	Resistance to External Blows at 0°C Impact Resistance Drop Impact Dart Impact Drop Test Resistance to low temp drop Resistance to external blow at 0 deg Resistance to applied load Shock absorption resistance	IS 4985:2000 (RA-2010) IS 9271: 2004(RA-2009)/ IS 13592:2013 IS 12818-2010 IS 14787-2000 (RA-2010) IS 14735-1999 (RA-2009) IS 15328:2003 IS 15778 – 2007 IS 12235 Pt 9 - 2004 IS 2508:2016 Method A & B of IS 13360 (Part 5/Sec 6) -1995 (RA-2008) IS 16703 – 2017 IS 11805:2007 IS 12701:1996 (RA-2006) IS 15609:2005 (RA-2010) / IS 6312-1994/2010 Annex. E IS 11584:1986/ (RA 2009) Appendix B & C IS 15410:2003 (RA-2009)/ IS 15609:2005 (RA-2010) Annex- G	Qualitative

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	<p>Corrugated Pipes for Drainage.</p> <p>Conduits for electrical installations</p> <p>UPVC Injection Moulding fitting for Soil and Waste Discharge System</p> <p>Non-Pressure Polyvinyl Chloride (PVC -U) Pipes for use in Underground Drainage and Sewerage</p> <p>Chlorinated Polyvinyl Chloride Pipes</p> <p>Polyethylene Pouches for Packaging Liquid Milk.</p> <p>Specifications for Rotational Moulded PE Water Storage Tank Polyethylene Flexible pouches & Containers for the packing of natural mineral water and packaged drinking water. Low Density PE Films (Black) HDPE/PP Woven</p>	Shock absorption resistance	<p>IS 2798-1998, (RA-2009)</p> <p>IS 9271:2004/2009 Annex. B (RA-2009)</p> <p>IS 9537 (Pt.1& 3)-1983 (RA-2015)</p> <p>IS 7028 Part – 3 & 4/IS 3730</p>	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Discharge System inside building ventilation & Rain Water. Structured-Wall Plastics Piping Systems For Non-Pressure Drainage and Sewerage. HDPE Pipes for Sewerage PE Pipes for the Supply of Gaseous Fuels Irrigation Equipment – Emitters and Emitting pipe UPVC Injection Moulding fitting for Soil and Waste Discharge System (PVC -U) Pipes for use in Underground Drainage and Sewerage PPR Copolymer Pipes for hot and cold Water Supplies PE/Al/PE composite Pressure Pipe for hot and Cold Water Supplies	Verification of the Malfunctioning Temp Slow crack growth rate Resistance to thermal cycling Air pressure leakage Vibration leakage test	IS 15450:2004 (RA-2009) Annex F & G IS 15778:2007 IS 12235 Part 8/Sec 1 2004 (RA-2009) IS 16098:2013 IS 14182:1994 (RA-2010) IS 16008:2016 (Part 1 & 2) IS 13217:1991 (RA-2012) IS 7016 (Pt. 6) 1987 IS 15351:2015 IS 15907:2010 IS 16513:2016 IS 1966: (Part 1 & 2) IS 15778:2007 Annex C IS 7028 (Part 2)	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	CPVC Pipes Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage – Specification Part 1&2 : Pipes and Fittings Type A & B Solvent cement for use with plasticized PVC pipe and fittings	Vibration leakage test	IS 7028 (Part 2)	Qualitative
5.	Polyethylene Pipes for Irrigation Lateral (PVC-U) plain screen and casing pipes for bore/tube well (CPVC) pipes for potable hot and cold water distribution supplies UPVC pipes for soil and waste discharge system inside buildings including ventilation and rain water system Irrigation Equipment - Sprinkler Pipes -	Tensile Strength/Load Puncture Resistance Tear resistance Seam/Peel strength	IS 12786:1989 (RA-2009) IS 12818:2010/IS 12235:2004 (Part 13) (RA-2009) IS 15778:2007 IS 12235:2004 (Part 13) (RA- 2009) IS 13592:2013 / IS 12235:2004 (Part 13) (RA-2009) IS 14151:1999 (Part-1) & (Part 2) / (RA-2009) IS 14885:2001 (RA-2012) Annex J ISO/DIS-6259-I-1994 15450:2004 (RA-2009) Annex E, IS 15609:2005 (RA-2010) IS 15351:2015 Annex. D IS 2508 - 2016	0.1 MPa to 1000 MPa 100N to 5000N 1N to 5000N 1 to 5000N

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Polyethylene Pipes Polyethylene Pipes for the Supply of Gaseous Fuels PE/AL/PE Composite Pressure Pipes for Hot and Cold Water Supplies Polyethylene Flexible Pouches for the Packing of Natural Mineral Water and Packaged Drinking Water Textiles - Laminated HDPE Fabric for Canal Lining LDPE Films Agro Textiles - HDPE Woven Beds for Vermiculture PVC GEO - Membranes for Lining Agro Textiles – HDPE laminated woven Lay Flat Tube for Irrigation Purpose. Standard Test Method for Tensile	Tenacity & Elongation	IS 13162 (Part 5) IS 15351:2015 Annex C IS 7016:1981 (RA-2008) (Part-3) Method A1& A2 IS 15907:2010 / IS 1969:2010/ IS 7016 (Part 2&3) IS 15907:2010 Annex C IS 15909-2015 / IS 2076:1981/(RA-2008) Annex B&C IS 15909-2015 Annex B & E IS 3464:1986(RA-2016) IS 16190:2014 Annex C IS 1969:2010 IS 14293:1995/(RA-2010) ASTM D 882:2012 IS 5378:1995 (RA-2010) IS 7703(Part 2):1990 IS 13360 (Part 5/Sec 1) IS 13360 (Part 5/ Sec 3) IS 16008:2012/2016 (Part1 & 2) IS 6192 – 1994 (RA-2014) IS 11197 - 1985 (RA-2014) IS 7903:2011 Annex B IS 14611:1988/2016 Annex C IS 13217:1991 (RA-2012) IS 16352:2015 Annex. C , IS 4572:2014/IS 7071:1986 (Part 4) Method B IS 8674:2013 IS 5175:2014	0.1 kgf to 9000 kgf

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Properties of Thin Plastic Sheeting Polyethylene cane Low density polyethylene films Shade Nets for Agriculture and Horticulture Purposes. Monoaxillary oriented tapes – HDPE/PP Textiles - Tarpaulins Made From High Density Polyethylene Woven Fabric Multilayered cross laminated sheet Thermoplastics Fumigation Cover Polyamide multifilament ropes (Hawser-laid and plaited) Fibre Ropes - Polyethylene -3- and 4 -Strand Ropes Polypropylene ropes (3-strand hawser-laid and 8-strand-plaited) (Plastic Materials &	Elongation	IS 13360-1996 (Part 5/Sec1) (RA-2008) ISO 527-1: 2012 ASTM D 638:2014 IS 2925:1984,(RA-2015) Appendix F IS 4716:1968 (RA-2008) Appendix- B, IS 12701:1996 (RA-2006) IS 9271:2004, Annex-E IS 14182:1994 (RA-2010) Annex C, IS 8543 part 4/Sec 1 1984 (RA-2004))/ IS 6899/IS 3730 IS 13410-1992 IS 8543 (part 4/Sec 1) 1984 Annex F of IS 13411: 1992/ (RA-2008) IS 11320:1997/RA2010 Annex F of IS 1998:1962 (RA-2008)	0.01% to 1500%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Products) Plastics - Determination Of Tensile Properties (Plastic Materials & Products) Standard Test Method For Tensile Properties of Plastics (Plastic Materials & Products) Industrial Safety Helmet Unsupported PVC rainwear UPVC single wall corrugated pipes for drainage. Solvent cement for UPVC Pipes and Fittings. Rotational moulded polyethylene water storage tanks Glass reinforced polyester sheet moulding compounds Glass fibre rovings for the reinforcement of polyester and of epoxide resin systems	Elongation	IS 13360-1996 (Part 5/Sec1) (RA-2008) ISO 527-1: 2012 ASTM D 638:2014 IS 2925:1984,(RA-2015) Appendix F IS 4716:1968 (RA-2008) Appendix- B, IS 12701:1996 (RA-2006) IS 9271:2004, Annex-E IS 14182:1994 (RA-2010) Annex C, IS 8543 part 4/Sec 1 1984 (RA-2004))/ IS 6899/IS 3730 IS 13410-1992 IS 8543 (part 4/Sec 1) 1984 Annex F of IS 13411: 1992/ (RA-2008) IS 11320:1997/RA2010 Annex F of IS 1998:1962 (RA-2008)	0.01% to 1500%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	HDPE Pipes for Potable Water Supplies. UPVC Pipes for Potable Water Supplies. UPVC Single Wall Corrugated Pipes for Drainage UPVC Screen and Casing Pipes for Bore / Tube Well Specifications for Sprinkler Pipes. Specifications for HDPE Pipes for Sewerage. Specifications for Polyethylene Pipes for the Supply of Gaseous Fuel. PE/Al/PE Composite Pressure Pipe for Hot and Cold Water Supplies Chlorinated Polyvinyl Chloride Pipes for potable hot and cold water distribution supplies. Polypropylene Random	Density	IS 4984:2016/IS 7328:1992 (RA-2008) IS 4985:2000 (RA-2010) IS 13360 (Part 3/Sec 1) IS 9271:2004 (RA-2009) IS 13360 (Part 3/Sec 1) IS 12818:2010/ IS 12235 (Part 14) IS 14151:1999 (Part 1) & (Part 2) (RA-2008) / IS 14333:1996 (RA-2008) IS 14885:2001 (RA-2012) IS 15450:2004 (RA-2009) IS 15778:2007 IS 12235: 2004 (Part 14) IS 15801:2008 / IS 13360 part-3/Sec 1995 (RA-2004) IS 16098:2013 (Part1 & 2) ASTM D 792:13 ASTM D 6683-14 IS 5378:1999 (RA-2010) / IS 2530:1963 (RA-2008) IS 6312:1994 (RA-1999) IS 12701:1996-(RA- 2006) IS 7328:1992 Annex. A	0.90 g/cc to 3.0 g/cc

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Copolymer Pipes for hot and cold water supplies Structured-Wall Plastics Piping Systems For Non-Pressure Drainage and Sewerage Density / specific gravity Bulk density Polyethylene Cane-specification Polyethylene Containers for the Transport of Materials Rotational Moulded Polyethylene Water Storage Tank	Density	IS 7328:1992 Annex. A	0.90 g/cc to 3.0 g/cc
7.	PVC GEO - Membranes for Lining.	Specific gravity	IS 15909:2015 Appendix A	0.30 to 2.50
8.	Fibre Ropes Polyamide 3-, 4-, 8- and 12 Strand Ropes. Polypropylene ropes. Textiles Monoaxially oriented HDPE tapes. HDPE Woven sacks	Linear Density	IS 4572:1992 (RA-2014) IS 6192:1994 (RA-2010) IS 6193:1971 (RA-2007) IS 8069:1989 (RA-2007) IS 11197:1985 (RA-2010) IS 9755:2016 IS 14252:2015 IS 14887:2014 IS 8543 1977 IS 14968:2015 IS 16008:2016 (Part-1)	10 Tex to 15000 Tex 10 denier to 15000 denier

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<p>for packing pesticides. HDPE/PP Woven Sacks For Packing Fertilizers. Monoaxillay oriented polypropylene tapes. Textiles - Woven Sacks for Packing Cement - HDPE/PP. Specifications for Textiles- HDPE/PP Woven Sacks for Filling Sand. Textiles- HDPE/PP Woven Sacks For packing 50kg food grains. Textiles High strength polyolefin's copolymer ropes. Textiles - HDPE/PP Woven Sacks for Packing 50 kg/25 kg Sugar. Specifications for Shade nets for Agriculture and Horticulture Purposes-Part1: Shade nets made</p>	Linear Density	IS 16190:2014 IS 16208:2015 IS 16703 – 2017 IS 16513:2016 IS 7071(Parts 1 to 3) : 1989 IS 5378:1999 (RA-2010)	10 denier to 15000 denier

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	from Tape. Agro Textiles-HDPE laminated woven Lay Flat Tube for Irrigation Purpose. Specifications for HDPE/PP woven sacks for packaging 10 kg, 15 kg, 20 kg, 25 kg and 30 kg food grains. HDPE/PP woven sacks for packaging 25 kg polymer materials Specifications for Agro textiles-Insect Nets for Agriculture and Horticulture Purposes. Agro Textiles-HDPE laminated woven Lay Flat Tube for Irrigation Purpose Polyethylene cane - specification	Linear Density	IS 16190:2014 IS 16208:2015 IS 16703 – 2017 IS 16513:2016 IS 7071(Parts 1 to 3) : 1989 IS 5378:1999 (RA-2010)	10 denier to 15000 denier
9.	Polypropylene Random Copolymer Pipes for hot and cold water supplies Specification. PP Raw Material	MFI (Melt flow rate & Melt Volume Rate)	IS 15801:2008 IS 13360 (Part 4/Sec1)-1995 (RA-2004) IS 11197 - 1985 IS 4984:2016/ IS 2530:1963 (RA-2008)	0.05 g/10min to 100 g/10min

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<p>HDPE Pipes for Potable Water Supplies.</p> <p>Irrigation Equipment</p> <p>Sprinkler Pipes.</p> <p>HDPE Pipes for Sewerage.</p> <p>Polyethylene Pipes for the Supply of Gaseous Fuels.</p> <p>PE/Al/PE Composite</p> <p>Pressure Pipe for Hot and Cold Water Supplies.</p> <p>Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage - Specification, Part 1: Pipes and Fittings with Smooth External Surface Type A & B</p> <p>Polyethylene Cane-Specification.</p> <p>Specifications for Rotational Moulded Polyethylene Water Storage Tank</p> <p>Specifications for Low Density</p>	<p>MFI (Melt flow rate & Melt Volume Rate)</p>	<p>IS 14151 (Part-1 & 2):1999 (RA -2009)</p> <p>IS 14333 :1996 (RA-2008)</p> <p>IS 13360 (Part 4/Sec 1)</p> <p>IS 14885:2001 (RA-2012)</p> <p>IS 15450:2004 (RA-2009)</p> <p>IS 16098:2013 (Part-2) (RA-2008)</p> <p>ASTM D 1238:2012</p> <p>IS 5378:1999 (RA-2010)</p> <p>IS 12701:1996- (RA- 2006)</p> <p>IS 2508:2016 /</p> <p>IS 13360 (Part-4 /sec1)-1995 (RA-2008)</p> <p>IS 15827:2009 /</p> <p>IS 13360 (Part-4/sec1)-1995 (RA-2008)</p>	<p>0.05 g/10min to 100 g/10min</p>

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Polyethylene Films (Black) Plastic Film For Greenhouses.	MFI (Melt flow rate & Melt Volume Rate)	IS 13360 (Part-4/sec1)-1995 (RA-2008)	0.05 g/10min to 100 g/10min
10.	HDPE Pipes for Potable Water Supplies. UPVC Pipes for Potable Water Supplies. Polyethylene pipes for irrigation Laterals. UPVC Pipes for Soil and Waste Discharge System inside building ventilation & Rain Water. Irrigation Equipment Sprinkler Pipes. HDPE Pipes for Sewerage. UPVC Pipes (Ducts) and Fittings for Underground Telecommunication s Cable Installation Polyethylene Pipes for the Supply of Gaseous Fuels. PVC -U Pipes for use in Underground	Reversion Test Dimensional Stability Axial shrinkage	IS 4984:2016 Annex-C IS 4985:2000 (RA-2010) IS-12786-1989 (RA-2009) IS 13592:2013 / IS 12235 Part 5 2004 (RA-2009) IS 14151:1999 (RA 2009) (Part-1 & Part-2) IS 14333:1996 (RA-2012) Annex. C IS 14787:2000 (RA-2010) IS 14885-2001 Annex C IS15328:2003 (RA-2008) IS 15778:2007 IS 15801:2008 IS 16098:2013 (Part 1 & 2) IS 6192 – 1994 (RA-2014) IS 11197 - 1985 (RA-2014) IS 13592: 2013 Annex B IS 11584:1986 Appendix D IS 3462:1986/2016 IS 2076:1981/R 2008 Appendix J	0.01% to 5 % 0.01 % to 15 % 0.01% to 10%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<p>Drainage and Sewerage. CPVC Pipes for potable hot and cold water distribution supplies. Polypropylene Random Copolymer Pipes for hot and cold water supplies. Structured-Wall Plastics Piping Systems For Non-Pressure Drainage and Sewerage Monoaxillay Oriented Tapes – HDPE/PP UPVC Pipes for SWR System. Specifications for UPVC Pipes for Soil and Waste discharge System inside building ventilation & Rain Water. HDPE Crates for milk sachets Unbacked flexible PVC flooring. Unsupported</p>	Axial shrinkage	IS 14787:2000 (RA-2010) IS 14885-2001 Annex C IS15328:2003 (RA-2008) IS 15778:2007 IS 15801:2008 IS 16098:2013 (Part 1 & 2) IS 6192 – 1994 (RA-2014) IS 11197 - 1985 (RA-2014) IS 13592: 2013 Annex B IS 11584:1986 Appendix D IS 3462:1986/2016 IS 2076:1981/R 2008 Appendix J	0.01% to 10%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Flexible Polyvinyl Chloride Sheeting			
11.	UPVC Pipes for Soil and Waste Discharge System inside building ventilation & Rain Water. Specifications for Injection moulded PVC socket fitting with solvent cement joints for water supplies. HDPE Crates for Milk Sachets. UPVC Injection Moulding fitting for Soil and Waste Discharge System. UPVC Pipes (Ducts) and Fittings for Underground telecommunication s Cable Installation. Structured-Wall Plastics Piping Systems For Non-Pressure Drainage and Sewerage	Stress relief test	IS 13592:2013 / IS 12235 (Part 6) 2004 (RA-2009) IS 7834:1987 (RA-2008) 11584:1986 Appendix. A IS 14735:1999 (RA-2009) IS 14757:2000 (RA-2010) IS 16098:2013 (Part 1 & 2) IS 12235:2004 Part-6 (RA-2009)	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
12.	UPVC Pipes for Potable Water Supplies. U-PVC Pipes (Ducts) and Fittings for Underground Telecommunications Cable Installations Specifications for UPVC Screen and Casing Pipes for Bore / Tube Well UPVC Pipes for Soil and Waste Discharge System inside building ventilation & Rain Water. Specifications for UPVC Injection Moulding fitting for Soil and Waste Discharge System. CPVC Compounds Used for Pipes and Fittings. PVC -U Pipes for use in Underground Drainage and Sewerage. Structured-Wall Plastics Piping Systems for Non-Pressure Drainage	Vicat Softening Temp.	IS 4985:2000/ IS 12235 Part 2 2004 (RA-2009) IS 12818:2010 IS 13592:2013 IS 14735:1999 IS 15225:2002 (RA-2008) / IS 13360 Part-6-1985 (RA-2008) IS 15778:2007 IS 15328: 2003 Annex. A IS 16098:2013 / IS 12235: 2004 Part 2 (RA-2009) ASTM D 1525:2009	50° C to 150° C

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	and Sewerage – Specification, Part 1: Pipes and Fittings with Smooth External Surface Type A	Vicat Softening Temp.	ASTM D 1525:2009	50° C to 150° C
13.	UPVC Pipes for Potable Water Supplies. Injection moulded PVC socket fitting with solvent cement joints for water supplies. Fabricated PVC Fitting for Potable Water Supplies. CPVC Pipes. PP Random Copolymer Pipes for hot and cold water supplies.	Opacity	IS 12235 Part 3 2004 R (2009) IS 7834:1987 Part. 1 IS 10151:1982 (RA-2008) / IS 12235:2004 Part-2 (RA-2009) IS 15778:201 IS 15801:2008	0.001% to 5 %
14.	Containers for packing of natural mineral water.	Transparency	IS 15410:2003 Annex A	50% to 100%
15.	Plastics Film & Sheets	Gloss	IS 2508:1984, ASTM D 523	0.1 to 100
16.	Plastics Film & Sheets	Coefficient of friction	IS 2508:1984, ASTM 1894, IS 11805	0.001 to 1
17.	Compressive Properties Of Plastic (Plastic Materials & Products)	Compressive strength	ASTM D 695:2015 ISO 604	10.78 MPa to 300 MPa

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
18.	CPVC pipes for hot & cold water supplies.	Flattening Test	IS 15778:2007 IS 12235:2004 (Part 19) (RA-2009)	Qualitative
19.	PVC-U Pipes for use in Underground Drainage and Sewerage. UPVC Single Wall Corrugated Pipes for Drainage. Structured-Wall Plastics Piping Systems For Non-Pressure Drainage And Sewerage — Specification. GRP Pipes joints and fittings GRP Pipes joints and fittings for use of portable water supplies	Ring Stiffness / Pipe Stiffness	IS 15328:2003 Annex C (RA-2008) IS 9271:2004 Annex A (RA-2009) IS 16098:2013 Annex B IS 14402:1996 Annex B (RA-2012) IS 12709:1994 (RA-2009) Annex B	2 kN/m ² to 10 kN/m ²
20.	UPVC Pipes for SWR System Flexible PVC pipes or polymer reinforced Thermoplastic hoses for agriculture pumps. Structured-Wall Plastics Piping Systems for Non-	Effect of sunlight	IS 13592:2013 IS 12235 (Part 13):2004 (RA-2009) IS 16098:2013 (part 2) Annex D	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Pressure Drainage and Sewerage - Specification, Part 1: Pipes and Fittings with Smooth External Surface Type A & B.	Effect of sunlight	IS 13592:2013 IS 12235 (Part 13):2004 (RA-2009) IS 16098:2013 (part 2) Annex D	Qualitative
21.	Unsaturated Polyester Resin System, Molded & Sheet Materials, Glass Reinforced Polyester SMC and plastics raw materials	Heat Deflection Temperature	IS 13411-1992 Annex H (RA-2008) ASTM D 648:2016	40 ⁰ C to 250 ⁰ C
22.	Glass reinforced polyester SMC , Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials and plastics raw materials	Flexural strength / Flexural Modulus	IS 1998:1962 (RA-2008) ASTM D 790 :2015 IS 13360 (Part 5/Sec7)	5 MPa to 15,000 MPa
23.	Glass reinforced polyester SMC , Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials and plastics raw materials	Izod/ Charpy Impact strength	IS 13360 (Part 5 Sec 5) ASTMD 256 ASTM D 6110 ISO 180 ISO 148 ISO 15801 Annex B	2 J/m to 1500 J/m

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
24.	Polyethylene Containers For The Transport Of Materials. Polyethylene Pouches for Packaging Liquid Milk. Container for packaging of Natural Mineral Water & Packaged drinking water PE Flexible Pouches for the packaging of Natural Mineral Water	Closure leakage test Leakage Test Resistance to Leakage	IS 6312-1994-(RA-2010) Annex D IS 11805:2007 IS 15410:2003 (RA-2009) / IS 2798:2009 (Part.6) IS 15609:2005 (RA-2010) Annex D IS 9738:2013	Qualitative
25.	(HDPE/PP) Woven Sacks for Filling Sand. Specifications for Multilayered Cross Laminated Sheets and Tarpaulins / Covers. Textiles - (HDPE/PP) Woven Sacks for Packing 50 kg/25 kg Sugar Textile Materials made from Polyolefin's. Shade nets for	Exposure to UV radiation and weathering / UV Resistance Colour Fastness to Artificial light	ASTM G154:2016 IS 14252:2015 IS 14611:2016 IS 14968:2015 IS 16008:2016 IS 14887:2014 IS 16208:2015 IS 9755:2016 IS 2076: 1981-(RA 2008) Appendix. E2 IS 2530: 1963 (Part. 15) (RA-2008)	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Agriculture and Horticulture Purposes-Part1: Shade nets made from Tape Yarns. HDPE/PP Woven sacks for packaging of 50 kg food grains (HDPE/PP) woven sacks for packaging 10 kg, 15 kg, 20 kg, 25 kg and 30 kg food grains (HDPE/PP) Woven Sacks For Packing Fertilizers	Colour Fastness to Artificial light	IS 2530: 1963 (Part. 15) (RA-2008)	Qualitative
26.	Low Density Polyethylene films. PE Pipe for Sprinkler Irrigation System Coupler.	Ageing Test	IS 2508:1984 of IS 7016 (Part 8) (RA-2012) IS 3400:2003 (Part 23) IS 14151 (Part 2): 2008 ASTMD 572-04 IS 5382:1986	Qualitative
27.	UPVC Plain Screen and Casing pipes PE Pipe for Sprinkler Irrigation System Coupler. Specifications for UPVC Injection Moulding fitting for Soil and Waste Discharge System	Shore A & Shore D Hardness	IS 12818-2010/ IS 3400:2003 (Part 23) IS 14151 (Part 2): 2008 IS 14735:1999 ASTMD 2240	20 to 100

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
28.	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage Part 1: Pipes and Fittings with Smooth External Surface Type A & B	Resistance to heating	IS 16098:2013 (Part-1 & 2) / IS 12235 (Part 6) 2004 (RA-2009)	Qualitative
29.	UPVC single wall corrugated pipes for drainage. Conduits for Electrical Installations (Rigid plain conduits of insulating materials)	Bending Test	IS 9271:2004 (RA-2009) Annex-D IS 9537 (Part.3):1983 (RA-2015) & IS 14930:2015	Qualitative
30.	Roto Moulded PE Water Storage Tanks	Top load resistance Resistance to deformation	IS 12701-1996 (RA- 2006)	Qualitative 1 mm to 15000 mm
31.	Polyethylene Flexible pouches for the packing of natural mineral water and packaged drinking water	Stack Load Test	IS 15609:2005 Annex F IS 7028 (Part – 1)	Qualitative
32.	Tarpaulin made from High Density Woven Fabric Agro Textile (HDPE) woven Beds for Vermiculture	Water Proof ness Water Repellency	IS 7940:1976 IS 7941:1976	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
33.	Polyethylene Flexible pouches for the packing of natural mineral water and packaged drinking water	Ink adhesion test	IS 15609:2005 Annex -H	Qualitative
34.	PVC GEO-Membranes for Lining	Water extraction	IS 15909:2010 Annex. G	0.1% to 0.5%
35.	Industrial Safety Helmet	Heat Resistance	IS 2925:1984, (RA-2015) Appendix K	Qualitative
36.	Irrigation Equipment – Emitters and Emitting pipe	Uniformity of emission rate	IS 13487-1992 (RA-2009) IS 13488-2008	1 lph to upto 100 lph
		Smallest Flow Path	IS 13487-1992 (RA-2009) IS 13488-2008	Upto 10mm
		Workmanship	IS 13487-1992 (RA-2009) IS 13488-2008	Qualitative
		Emitter Pull Out/ Resistance to tension at elevated & Ambient temperatures	IS 13487-1992 (RA-2009) IS 13488-2008	Qualitative
		Emitting unit Exponent	IS 13487-1992 (RA-2009) IS 13488-2008	Qualitative
37.	Industrial Safety Helmets	Sizes/Head band Cradle/Chin Strap/Nape Strap	IS 2925:1984/2015 IS 2925:1984/2015 Appendix D	1 mm to 600 mm
38.	Plastic products	Rockwell hardness	ASTM D785 -08 (2015)	R, L, M, E & K Scale
39.	Plastic products	Barcol hardness	ASTM D 2583 - 13	1 to 100

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
40.	Unsaturated Polyester resin systems, Industrial Safety Helmet, Plastics Materials & products	Flammability/ Rate of Burning	IS 13410:1992 (RA-2008), ASTM D 635, IS 2925:1984, (RA-2015) Appendix G	Qualitative
41.	Plastics Films and Sheets	Elmendorf Tear strength	IS 2508, ASTM D 1922, ASTM D 1004-13	200 gf to 6300 gf
42.	PVC resin and Plastics Powder	Sieve analysis	IS 4669:1985 (RA 2013)	Qualitative