Baddi, Himachal Pradesh

Accreditation Standard ISO/IEC 17025: 2005

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Validity 10.10.2018 to 09.10.2020 Last Amended on --

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

CHEMICAL TESTING

I.	PLASTIC & RESIN			
1.	Resin, Plastic &	Carbon Black Content	IS 2530	0.01 % to 50 %
	Polymers, Raw material	Melt Flow Index	IS 2530	0.15 g/10 min. to 50 g/10 min.
	(Granular, Powder, Resin) &	Carbon Black Dispersion, Pigment Dispersion	IS 2530	Qualitative
	Plastic Films	Overall Migration	IS 9845	1 to 15 g/ml
		Susceptibility to Environmental Stress Cracking	IS 12786 ASTM D1693	Qualitative
		Sulphated Ash Content	IS 12235	1 % to 80 %
		Vicat Softening Temperature	IS 12235 (Part 2)	50 °C to 300 °C
		K-Value	IS 4669	30 to 80
		Resistance to Sulphuric Acid	IS 12235 (Part 7)	0.001 g to 10 g
		Ash Content	ASTM D5630, IS 14887	0.01 % to 80 %
		Flammability	IS 11731 (Part 2) UL-94	Qualitative
		Resistance to flame propagation	IS 14930 (Part 1 & Part 2):	Qualitative
		Water Absorption	IS 13411 ASTM D570	0.001 % to 80 %

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Convenor	Program Manager

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MECHANICAL TESTING

I.	PLASTIC & POLYM	ERS		
1.	Plastic sheets, Plastic material & Products, Molded Component, Packaging	Dimension (Outside & Inside Diameter)	IS 4984 IS 14151 (Part 1) IS 12701, IS 12786 IS 14333, IS 12235 (Part 1) IS 10124 (Part 1) IS 7834 (Part 1)	20 mm to 200 mm
	Container, Polymer Products, Fibre Reinforce Plastic Product, Plastic Films,	Dimension (Thickness)	IS 4984:2016, IS 14151 (Part 1), IS 12701 IS 12786, IS 14333 IS 7834 (Part 1) IS 10124 (Part 1) IS 2508:2016	0.01 mm to 70 mm
	Plastic Pipes & Accessories & Others like Woven	Dimension (Length & Width)	IS 13488, IS 11584 IS 14887, IS 9755 IS 14968, IS 16208	1 mm to 1000 mm
	Sacks	Visual Appearance	IS 4985 IS 4984, IS 14151(Part 1) IS 14151 (Part 2) IS 13592, IS 12701 IS 12786, IS 14333 IS 2508	Qualitative
		Specific Gravity	IS 12235 (Part 14)	0.7 to 3.0
		Density	IS 13360 Part 3/Sec 1, IS 7328, IS 2530, ASTM D792	0.7 g/cc to 3.0 g/cc
		Linear Density (Denier)	IS 14887, IS 9755, IS 14968, IS 16208, IS 14252	100 denier to 1500 denier
		Stack Load Test	IS 14537	Qualitative

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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
		Glow Wire Test	IS 14772 IEC 60695-2-1 IS 11000-2-1	Qualitative
		Reversion Test	IS 12235 , IS 4984, IS 12786, IS 14151 (Part 1), IS 14333	- 5 % to (+ 5%)
		Stress Relief Test	IS 12235 IS 7834 (Part 1)	Qualitative
		Axial Shrinkage	IS 13592	0 to 5 %
		Tear Resistance	IS 2508	8100 g/f max.
		Hydraulic Characteristics (Acceptance & Type)	IS 14151 (Part 1) IS 12786 IS 14333 IS 7834 (Part 1), IS 10124 (Part1), IS 4984, IS 12235 (Part 8)	Qualitative
		Water Tightness of Joint	ÌS 13592	Qualitative
		Leakage Test	IS 14151 (Part 2)	Qualitative
		Fusion compatibility test	IS 14151 (Part 1)	Qualitative
		Weldability test	IS 14151 (Part 2)	Qualitative
		Resistance to External Blow at 0°C	IS 4985 IS 12235 (Part 9)	Qualitative
		Impact Resistance (Izod & Charpy)	ASTM D 256, ASTM D 6110	1 J/m to 200 J/m
		Durometer Hardness (Shore A & Shore D)	ASTM D 2240 IS14151 (Part 2)	0 to 70 Shore A 1 to 100 Shore D
		Tensile Properties: Tensile Strength & Tensile Modulus	IS 8543 (Part 4Sec-1), ASTM D638, IS 14151 (Part 1), IS 2508 IS 13592	10 MPa to 500 MPa 1 % to 2000 %
		Elongation Avg. Breaking strength & Elongation @ Break Co-efficient of Friction	IS 13592 IS 1969 (Part 1) IS 9030 ASTM D1894	0.1 N to 50 kN 1 % to 100 %

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Allit Kullai	
Convener	
Convenor	

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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
		Ring Stiffness	IS 15328	1 kN/m ² to 16 kN/m ²
		Flexural Modulus	IS 13360 (Part 5 & Sec.7) ASTM D 790	100 MPa to 4000MPa
		Compression Test	IS 14930 (Part 1)	1 N to 40 kN
		Gross Capacity	IS 12701 IS 2798	100 L to 10,000 L
		Net Capacity	IS 12701 IS 2798	100 L to 10,000 L
		Determination of Haze	ASTM D1003	0 to 100
		Opacity Test	IS 12235 (Part 3)	0 to 100 %
		Transparency	IS 15410	0 to 100 %
		Heat Deflection Temperature	ASTM D 648	25 °C to 300 °C
		Dart Impact Resistance (Film)	IS13360 (Part 5/Sec 6)	1 g to 2000 g

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