

Laboratory **Plastics Testing Centre (PTC), Central Institute of Plastics Engineering & Technology (CIPET): CSTS, Plot No. 198/201, Jharmajri, Dist. Solan, Baddi, Himachal Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7994**

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Validity **10.10.2018 to 09.10.2020**

Last Amended on --

Sl.	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	IS 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 Elongation	IS 8543 (Part 4Sec-1), ASTM D638, IS 14151 (Part 1), IS 2508 IS 13592	10 MPa to 500 MPa 1 % to 2000 %
		Avg. Breaking strength & Elongation @ Break	IS 1969 (Part 1) IS 9030	0.1 N to 50 kN 1 % to 100 %
		Co-efficient of Friction	ASTM D1894	--

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		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

Amit Kumar
Convenor

Anuja Anand
Program Manager