

Laboratory Mitras Technocrafts Lab, B-2611, DSIDC Indl. Estate, Narela, Delhi
 Accreditation Standard ISO/IEC 17025: 2005
 Certificate Number TC-6486 Page 1 of 2
 Validity 03.11.2017 to 02.11.2019 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
-----	----------------------------	-------------------------	---	--

MECHANICAL TESTING

I.	PLASTICS AND PLASTIC PRODUCTS			
1.	Thermoplastic hose (Textile reinforced) for water - general purpose/Thermoplastic hose (Textile reinforced) For Compressed Air / Rubber Water Hose/ Gas Welding Hose	Nominal Bore	IS 443 - 1975 (Reaffirmed 2012)	4 mm to 60 mm
		Thickness of Lining & Cover	IS 443 - 1975 (Reaffirmed 2012)	0.50 mm to 6 mm
2.	Thermoplastic hose (Textile reinforced) for water - general purpose	Loss in Mass on Heating	IS : 12585 – 2014	0.1 % to 5 %
		Adhesion	IS : 3400 (part 24) – 2012	0.5 kN/m to 20 kN/m
3.	Thermoplastic hose (Textile reinforced) for water - general purpose/Thermoplastic hose (Textile reinforced) For Compressed Air / Rubber Water Hose	Proof Pressure Test	IS 443 - 1975 (Reaffirmed 2012)	Qualitative (Pass / Fail)
		Burst Pressure Test	IS 443 - 1975 (Reaffirmed 2012)	1 kg/cm ² to 80 Kg/cm ²
4.	Thermoplastic hose (Textile reinforced) for water - general purpose	Minimum Bend Radius	IS : 12656 -2014	Qualitative (Pass / Fail)
		Cold Bend Test	IS : 12657 – 2014	Qualitative (Pass / Fail)

Ramprasath R.
Convenor

N. Venkateswaran
Program Director

Laboratory **Mitras Technocrafts Lab, B-2611, DSIDC Indl. Estate, Narela, Delhi**
 Accreditation Standard **ISO/IEC 17025: 2005**
 Certificate Number **TC-6486** Page 2 of 2
 Validity **03.11.2017 to 02.11.2019** 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
5.	Thermoplastic hose (Textile reinforced) For Compressed Air	Loss in Mass on Heating	IS : 12492 : 2008	0.1 % to 20 %
		Adhesion	IS 3400 (Part 5): 2014	0.5 kN/m to 20 kN/m
	Thermoplastic hose (Textile reinforced) For Compressed Air/Rubber Water Hose/Gas Welding Hose	Change in Diameter	IS 443 - 1975 (Reaffirmed 2012)	(-) 30 % to (+) 30 %
		Change in Length	IS 443 - 1975 (Reaffirmed 2012)	(-) 30 % to (+) 30 %
6.	Thermoplastic hose (Textile reinforced) for Compressed Air	Cold Bend Test	IS : 12492 – 2008 (Reaffirmed 2013)	Qualitative (Pass / Fail)
		Resistance to Liquid Test	IS : 3400 (Part 6) - 2012	(-) 20 % to (+) 20 %
7.	Rubber Water Hose/Gas Welding Hose	Tensile Strength Test	IS : 3400 (PART 1) : 2012	1 MPa to 30 MPa
		Elongation at Break	IS : 3400 (PART 1) : 2012	50 % to 600 %
		Accelerated Ageing Test	IS : 3400 (PART 1) : 2012	(-) 30 % to (+) 30 %