

8		GEOMETRICAL CHARACTERISTICS OF PIPES						
8.1		DIMENSIONS OF PIPES						
Diameter	8.1.1	IS 16647 Table 3	R	10	Each control unit	-		
	Wall thickness	8.1.2	IS 12235 (Part 1) IS 16647	R	10	Each control unit	-	
		Table 4 to 8	IS 12235 (Part 1)					
Length	8.1.3	IS 16647	R	10	Each control unit	-		
8.2	Dimensions of integral socket	8.2, Table 9	IS 16647	R	10	Each control unit	-	
8.3	Pipe ends	8.3	IS 16647	R	10	Each control unit	-	
9		MECHANICAL CHARACTERISTICS OF PIPES						
9.1		RESISTANCE TO HYDROSTATIC PRESSURE						
9.1.1		Pipes						
For period 10 h at 27 °C	9.1.1	IS 16647 Table 10	R	1	Each control unit	-		
		IS 16465/ ISO 9080						
For period 1000 h at 60 °C	9.1.1	IS 16647 Table 10	R	1	Once in three month	One sample of each material classification and pressure rating shall be tested once in two year		
		IS 16462/ ISO 9080						
9.1.2	Pipes with integral socket (For period 10 h at 27 °C)	9.1.2	IS 16647 IS 12235 (Part 8)	R	1	Each control unit	-	
9.2	Resistance to external blows at 0°C	9.2	IS 16647 IS 12235 (Part 9)	R	Adequate pieces	Each control unit	-	

9.3	Ring Stiffness	9.3 Table 12	IS 16647 IS 12235 (Part 18)	R	1	Each control unit	-	
9.4	Orientation factor (Optional requirement)	9.4 Annex-E	IS 16647	S		As required	-	
10	PHYSICAL AND CHEMICAL CHARACTERISTICS							
	Vicat softening temperature	10, Table 13	IS 16647 IS 12235 (Part 2)	S	1	Once in three months	\$	
	Effect on water	10, Table 13	IS 16647 IS 12235 (Part 4) IS 12235 (Part 10)	S	1	Once in six months	Smallest size pipe produced shall be tested @	
	Resistance to Di-chloromethane at a specific temperature (Degree of gelation)	10, Table 13	IS 16647 IS 12235 (Part 11)	R	1	Every 10 th control unit	Any one test to be carried out	
	Uni-axial tensile test	10, Table 13	IS 16647 IS 12235 (Part 13)	R	1	Every 10 th control unit		
11	MECHANICAL CHARACTERISTICS OF ASSEMBLIES INCLUDING JOINTS							
11.1	Assemblies with non – end - load bearing joints							
11.2	Short term pressure test for leak tightness of assemblies	11.2 Table 14	IS 16647 IS 12235 (Part 8/ Sec 2)	R	1	Once in three months	Samples shall be tested in rotation to ensure that all the varieties are tested over a period of time	
11.3	Short term negative pressure test for leak tightness of assemblies	11.3 Table 15	IS 16647 IS 12235 (Part 8/ Sec 3)	R	1	Once in three months		
11.4	Long term pressure test for leak tightness	11.4 Table 16	IS 16647 IS 12235 (Part 8/ Sec 4)	R	1	Once in three months		
12	Elastomeric seals	12	IS 16647 IS 5382	S	10	Each consignment	#	