

//02//

[4] OPACITY TEST : (Max. permissible value 0.1%)

- Size of Specimen : 55 x 55 mm
- Thickness of Specimen : 2.13 mm
- Observed % of light Transmitted : 0.00 %

Assessment : PASS / FAIL

[5] HYDROSTATIC PRESSURE TEST :

- Conditioning of sample : 24 Hours
- No. of Selected Samples : 1 Nos
- Mean OD of the pipe : 22.20 mm
- Minimum Wall thickness Pipe : 2.13 mm
- Length of the sample : 500 mm (Between 250mm to 750mm)
- Applied Pressure : 91.27 kg/cm²
- Water bath Temperature : 27 °C
- Duration of test : 1 Hour

Assessment : PASS / FAIL

[6] RESISTANCE TO EXTRANAL BLOWS AT 0 °C TEMPERATURE

- Length of Specimen : 200.00 mm + 10mm
- Period of Conditioning : 1 Hour
- Temperature of Specimen : 0 °C ± 1
- Weight of Striker : 0.500 kg ± 0.5%
- Height of fall : 400 mm ± 10mm
- Number of equidistant lines drawn : ONE
- Observed Value : 25 strikes
- Cracks/ Ruptures Observed : 23pass 02fail

Assessment : PASS / FAIL

[7] DENSITY : (specified : 1.45 to 1.65 gm/cc)

Temperature : AT 27°C

sam. No	Wt.in. Air (gm) (Wa)	Wt.in. Water (gm) (Ww)	Wt. Difference (gm) (Wd = Wa - Ww)	Density of Water	Density (gm/cm ³) (Wa/Wd)
1	2.5544	0.8404	1.7140	0.9995	1.4896
1	2.6899	0.8873	1.8026	0.9995	1.4915

Assessment : PASS / FAIL

[8] PIPE END :

- Number of Sample : 10 NOS
- Clean cut & square to axis : YES

Assessment : PASS / FAIL

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[9] **VICAT SOFTING TEMPERATURE :** (specified value : not less than 110°C)

- ☐ Size of specimen : 10 x 10 mm
- ☐ Minimum wall thickness & nos : 2.13 mm & 2 nos
- ☐ Conditioning before test : Temperature 27° ± 2°C
- ☐ Weight : Relative Humidity 65 ± 5%
- ☐ Depth of penetration : 5 kg
- ☐ Vicat softening temperature : 1 mm
- ☐ : (1) 110.9 ° C (2) 111.1 ° C

Assessment : PASS / FAIL

(10) **FL ATTENING TEST**

- ☐ Length of Specimen : 50 mm
- ☐ Deflection Speed : 2 ± 0.4 mm/ min (Press up to 40% dist Remain between two plate)
- ☐ Splitting Cracking or Breaking : Nil
- ☐ Total Nos of Sample : 1

Sample	Sample	Sample	Sample
Result	Pass	Pass	Pass

Assessment : PASS / FAIL

(11) **TENSILE STRENGTH TEST NOT LESS THEN 50 Mpa**

- ☐ Conditioning : Temperature 27° ± 2°C
- ☐ Number of Sample : Relative Humidity 65 ± 5%
- ☐ Sample dimension (1) Width : ONE
- ☐ (2) Thick. : 0.995 Cm
- ☐ Maximun lod (kgf) : 0.213 Cm
- ☐ Speed of separation : 111.2 kgf
- ☐ Result in MPA : 50 ± 10 % mm/min.
- ☐ Calculation : 52.47 (Result should not be less than 50 Mpa)
- ☐ : $\frac{\text{Maximum load (kgf)}}{\text{width(mm)} \times \text{thickness(mm)}}$

Assessment : PASS / FAIL

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