

**SUBJECT:**

Testing of uPVC pipes

**TESTED FOR:**

SNOW PTE LTD  
15A, Tuas Avenue 18, #03-01 & #04-03,  
Jian Huang Business Centre,  
Singapore 638905

Attn: Mr. Senthil

**SAMPLE RECEIVED DATE:**

13 Nov 2025 and 19 Nov 2025

**TEST DATE:**



13 Nov 2025 to 21 Nov 2025

**METHOD OF TEST:**

SS 141: 2013 - Specification for unplasticised PVC pipe for cold water services and industrial uses

**TEST CONDECTED:**

1. Measurement of dimensional
2. Vicat Softening Temperature
3. Heat reversion
4. Hydrostatic pressure
5. Impact strength
6. Tensile
7. Opacity

|                                                                                     |                                                                                                                                                                  |                                                                                                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
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|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|

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## SAMPLE DESCRIPTION:

One lot of uPVC pipes were received. The descriptions are as follow:

| Size    | Markings                                                                                  |
|---------|-------------------------------------------------------------------------------------------|
| 155mm Ø | SNOW 155mm uPVC PIPE SS141:2013 BS 3506 CLASS B PUB 1506S (1) 12 11 25<br>17:12 LEAD FREE |

## TEST RESULTS:

**Table 1 – Dimensional measurements**

| Sample Reference & Sizes                | Results | SS 141 : 2013 Requirements<br>PN 0.6 (Class B) |
|-----------------------------------------|---------|------------------------------------------------|
|                                         | 155mm Ø | 155mm Ø                                        |
| Mean outside diameter (mm)              | 168.5   | 168.0 min.<br>168.5 max.                       |
| Thickness individual value<br>(mm) Min. | 4.9     | 4.5                                            |
| Thickness individual value<br>(mm) Max. | 5.1     | 5.2                                            |
| Thickness average value (mm)            | 5.0     | 5.2 max.                                       |

**Table 2 – Vicat Softening Temperature Tests**

| Sample Reference & Sizes | Results | SS 141 : 2013 Requirements |
|--------------------------|---------|----------------------------|
|                          | 155mm Ø |                            |
| Softening temperature °C | 80      | ≥ 80                       |

**Table 3- Longitudinal reversion Tests**

| Sample Reference & Sizes              | Result  | SS 141 : 2013 Requirements |
|---------------------------------------|---------|----------------------------|
|                                       | 155mm Ø |                            |
| Heat reversion, (%)<br>(Hot air oven) | 3.2     | 5 max.                     |

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## TEST RESULTS (CONT'D):

**Table 4 – Hydrostatic pressure Tests**

| Sample Reference & Sizes             | Result  | SS 141 : 2013 Requirements  |
|--------------------------------------|---------|-----------------------------|
|                                      | 155mm Ø |                             |
| Hydrostatic short term strength test | Passed  | No failure during the test. |

**Table 5 – Impact Tests**


| Sample Reference & Sizes | Result  | SS 141 : 2013 Requirements |
|--------------------------|---------|----------------------------|
|                          | 155mm Ø |                            |
| Impact test              | Passed  | Clause D.5                 |

**Table 6 –Tensile Tests**

| Sample Reference & Sizes               | Results | SS 141 : 2013 Requirements<br>Table 5 |
|----------------------------------------|---------|---------------------------------------|
|                                        | 155mm Ø |                                       |
| Uniaxial tensile test (MPa)<br>Average | 50.4    | 45                                    |
| Strain at break (%) Average            | 184     | ≥ 80                                  |

**Table 7 – Opacity Tests**

| Sample Reference & Sizes | Result  | SS 141 : 2013 Requirements                                       |
|--------------------------|---------|------------------------------------------------------------------|
|                          | 155mm Ø |                                                                  |
| Opacity                  | Passed  | Shall not transmit more than 0.2% of visible light failing on it |

  
Kua Guan Thye  
Testing Officer

  
Ong Yeo Chuan  
Manager

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