

# **TEST REPORT 2322168-LCH**

Date 27 JAN 2023

Singapore Test Lab Pte Ltd, 10B Enterprise Road, Singapore 629828, Tel: +65 6353 6393, Fax: +65 6353 6395

# **SUBJECT:**

Testing of uPVC pipe

#### **TESTED FOR:**

Snow Pte Ltd 15A Tuas Ave 18, #03-01 Singapore 638905

Attn: Mr Senthil

## **SAMPLE RECEIVED DATE:**

04 Jan 2023

#### **TEST DATE:**

05 Jan 2023

## **METHOD OF TEST:**

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

#### **TEST CONDUCTED:**

- Measurement of dimensional 1.
- 2. Softening point
- 3. Heat reversion
- 4. Hydrostatic pressure
- 5. Impact strength
- 6. Tensile
- Opacity





The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme.

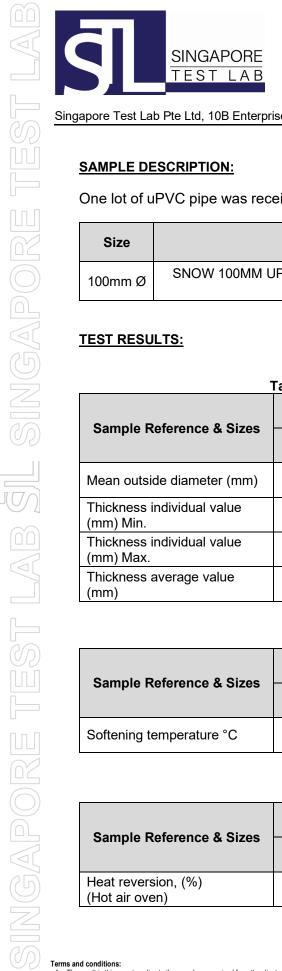
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# **SAMPLE DESCRIPTION:**

One lot of uPVC pipe was received. The descriptions are as follow:

Size	Markings
100mm Ø	SNOW 100MM UPVC PIPE SS141:2013 BS3506 CLASS B PUB1006S 1 20.12.22 LEAD FREE

#### **TEST RESULTS:**

Table 1 - Dimensional measurement

Sample Reference & Sizes	Results	SS 141 : 2013 Requirements PN 6 (Class B)
Sample Reference & Sizes	100mm Ø	100mm Ø
Mean outside diameter (mm)	114.3	114.1 min. 114.5 max.
Thickness individual value (mm) Min.	3.8	3.4 min.
Thickness individual value (mm) Max.	4.0	4.0 max.
Thickness average value (mm)	3.9	4.0 max.

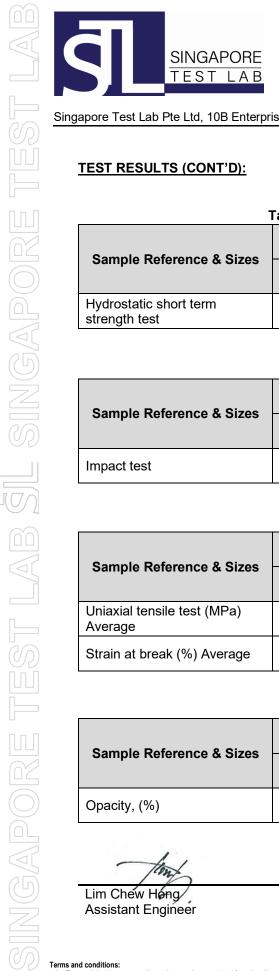
Table 2 – Softening point test

Sample Reference & Sizes	Results	SS 141 : 2013 Requirements
Sample Reference & Sizes	100mm Ø	33 141 . 2013 Requirements
Softening temperature °C	80.3	≥ 80

#### Table 3 - Heat reversion test

Sample Reference & Sizes	Results	SS 141 : 2012 Paguiromento
Sample Reference & Sizes	100mm Ø	SS 141 : 2013 Requirements
Heat reversion, (%) (Hot air oven)	1.7	5 max.

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# **TEST RESULTS (CONT'D):**

Table 4 - Hydrostatic pressure test

Comple Deference 9 Sizes	Results	SS 444 - 2042 Paguiramenta
Sample Reference & Sizes	100mm Ø	SS 141 : 2013 Requirements
Hydrostatic short term strength test	Passed	No failure during test

# Table 5 - Impact test

Sample Reference & Sizes	Results	SS 141 : 2013 Requirements
Sample Reference & Sizes	100mm Ø	33 141 . 2013 Requirements
Impact test	Passed	Clause D.5

### Table 6 -Tensile test

Cample Deference 9 Sizes	Results	SS 141 : 2013 Requirements
Sample Reference & Sizes	100mm Ø	Table 5
Uniaxial tensile test (MPa) Average	53.1	≥ 45
Strain at break (%) Average	280.4	≥ 80

#### Table 7 - Opacity test

Sample Reference & Sizes	Results	SS 141 : 2013 Requirements
Sample Reference & Sizes	100mm Ø	33 141 . 2013 Requirements
Opacity, (%)	0	Shall not transmit more than 0.2% of visible light falling on it

Lim Chew Hong Assistant Engineer

Manager

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