



# 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:**

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



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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)
	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
	100mm Ø	
Softening temperature °C	80.3	≥ 80

**Table 3 – Heat reversion test**

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

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## TEST RESULTS (CONT'D):

**Table 4 – Hydrostatic pressure test**

Sample Reference & Sizes	Results	SS 141 : 2013 Requirements
	100mm Ø	
Hydrostatic short term strength test	Passed	No failure during test

**Table 5 – Impact test**


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

**Table 6 –Tensile test**

Sample Reference & Sizes	Results	SS 141 : 2013 Requirements Table 5
	100mm Ø	
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
	100mm Ø	
Opacity, (%)	0	Shall not transmit more than 0.2% of visible light falling on it

  
 \_\_\_\_\_  
 Lim Chew Hong  
 Assistant Engineer

  
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 Ong Yeo Chuan  
 Manager

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