

TEST REPORT 2524178-TKC

Date 27 FEB 2025

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

SUBJECT:

Testing of uPVC pipe (Grey) submitted by Snow Pte Ltd on 24 February 2025.

TESTED FOR:

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

Attn: Mr Senthilvelan

TEST DATE:

24 February 2025 to 26 February 2025

METHOD OF TEST:

SS 272:2022 - Specification for unplasticised PVC pipes and fittings below ground for sanitary drainlines.

TEST CONDUCTED:

- **Dimensional Measurement** 1.
- 2. Heat Reversion
- 3. Hydrostatic Pressure
- 4. Impact Strength
- 5. Tensile Strength
- 6. Opacity
- Softening point





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

Terms and conditions:

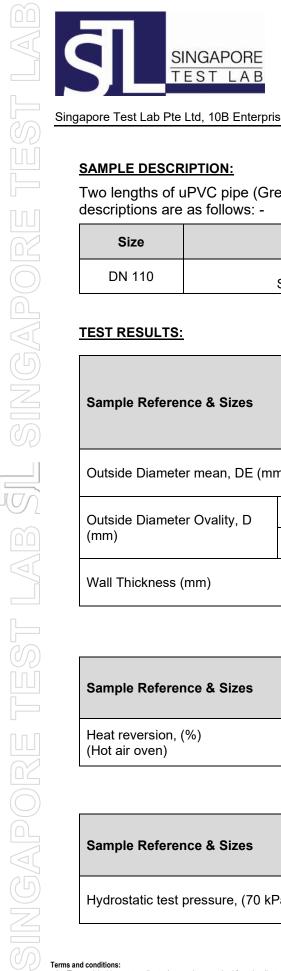
- This report applies to the sample of the specific product given at the time of its testing. The results are not used to indicate or imply that they are applicable to other similar items. This report may not be used to indicate or imply that Singapore Test Lab endorses, approves or recommends the tested sample
- Singapore Test Lab shall under no circumstances be liable to the client in contract or otherwise for any direct or indirect loss or damage suffered by the client howsoever arising or whether connected with the services provided herein.
- Singapore Test Lab assumes no responsibility for the accuracy of information and/or details of the samples as supplied by the client.
- This report shall not be reproduced in part or in full and shall not be used in any publicity material without the written permission of Singapore Test Lab.
- The tests were carried out at Singapore Test Lab unless otherwise stated



Singapore Test Lab is an ISO / IEC 17025 Accredited Laboratory.



Page 1 of 3



TEST REPORT 2524178-TKC

Date 27 FEB 2025

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

SAMPLE DESCRIPTION:

Two lengths of uPVC pipe (Grey) (refer to photograph 1) were received for testing, the descriptions are as follows: -

Size	Markings
DN 110	SNOW 110MM UPVC PIPE SINGAPORE TELECOM SS272:2012 TCP1006S (1) 10.02.25 17:48 LEAD FREE

TEST RESULTS:

Dimensional Massurement

Sample Reference & Sizes		Results	SS 272:2022 (Table 3 & 4) Requirements
		110mm Ø	110mm Ø
Outside Diameter mean, DE (mm)		110.3	110.0 min. 110.4 max.
Outside Diameter Ovality, D	Min.	110.1	109.6
(mm)	Max.	110.5	110.8
Wall Thickness (mm)		3.3	3.2 min. 3.6 max.

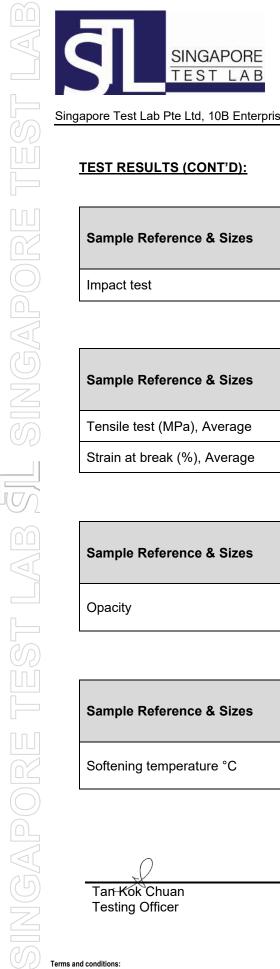
Table 2- Heat Reversion Test

Comple Beforence & Sizes	Results	SS 272:2022 (Annex E) Requirements
Sample Reference & Sizes	110mm Ø	
Heat reversion, (%) (Hot air oven)	2.2	Pipe shall not alter in length by more than 5%

Table 3 - Hydrostatic Pressure Test

Sample Reference & Sizes	Results	SS 272:2022 (Annex G) Requirements
Sample Reference & Sizes	110mm Ø	
Hydrostatic test pressure, (70 kPa)	Passed	Pipe shall show no signs of leakage or any defects

- The result in this report applies to the sample as received from the client at the time of its testing. The result is not intended to be representative of other similar or equivalent sample. This report may not be used to indicate or imply that Singapore Test Lab shall under no circumstances be liable to the client in contract or otherwise for any direct or indirect loss or damage suffered by the client howsoever arising or whether connected with the services
- provided herein.
- Singapore Test Lab assumes no responsibility for the accuracy of information and/or details of the samples as supplied by the client.
- This report shall not be reproduced in part or in full and shall not be used in any publicity material without the written permission of Singapore Test Lab. The tests were carried out at Singapore Test Lab unless otherwise stated.



TEST REPORT 2524178-TKC

Date 27 FEB 2025

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

TEST RESULTS (CONT'D):

Table 4 - Impact Test

Sample Reference & Sizes	Results	SS 272:2022
Sample Reference & Sizes	110mm Ø	(Annex F) Requirements
Impact test	Passed	Clause 9.1.5

Table 5 - Tensile Test

Sample Beforence & Sizes	Results	SS 272:2022
Sample Reference & Sizes	110mm Ø	(Annex D) Requirements
Tensile test (MPa), Average	48.3	45 min.
Strain at break (%), Average	169	<u>≥</u> 80

Table 6 - Opacity Test

Sample Reference & Sizes	Results	SS 272:2022 (Annex H) Requirements
Sample Reference & Sizes	110mm Ø	
Opacity	0	Shall not transmit more than 0.2% of visible light falling on it

Table 7 - Softening Point Test

Sample Beforence & Sizes	Results	SS 272:2022
Sample Reference & Sizes	110mm Ø	(Annex B) Requirements
Softening temperature °C	81	Shall have a softening point of not less than 81°C

Tan Kok Chuan **Testing Officer**

Manager

- The result in this report applies to the sample as received from the client at the time of its testing. The result is not intended to be representative of other similar or equivalent sample. This report may not be used to indicate or imply that Singapore Test Lab shall under no circumstances be liable to the client in contract or otherwise for any direct or indirect loss or damage suffered by the client howsoever arising or whether connected with the services
- provided herein.
- Singapore Test Lab assumes no responsibility for the accuracy of information and/or details of the samples as supplied by the client.
- This report shall not be reproduced in part or in full and shall not be used in any publicity material without the written permission of Singapore Test Lab. The tests were carried out at Singapore Test Lab unless otherwise stated.