

# **TEST REPORT 2222103-OYC**

Date 20 FEB 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: Steven Eu

# **TEST DATE**:

10 Jan 2023

### **METHOD OF TEST:**

SS 272: 2012 - Specification for unplasticised PVC pipes and fittings below ground for drainlines and

### **TEST CONDUCTED:**

- 1. Softening point
- 2. Tensile
- 3. Impact strength
- 4. Heat reversion
- 5. Hydrostatic pressure
- 6. Opacity
- Determination of PVC and titanium dioxide content

# **SAMPLE DESCRIPTION:**

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

Size	Markings
200mm Ø	Snow 200mm uPVC PIPE SS272 BS4660 SP20058 27.12.22 LEAD FREE

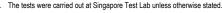




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#### **TEST RESULTS:**

Table 1 - Softening point test

Sample Reference & Sizes	Result	SS 272: 2012 Requirements
	200mm Ø	Requirements
Softening temperature °C	81.1	<u>≥</u> 81.0

#### Table 2 - Tensile Test

Sample Reference & Sizes	Result 200mm	SS 272: 2012 Requirements
Tensile strength, (MPa)	45.7	<u>&gt;</u> 45MPa
Elongation at break, (%)	155	<u>&gt;</u> 80%

#### Table 3 - Impact test

Sample Reference & Sizes	Results	SS 272: 2012
Sample Reference & Sizes	200mm Ø	Requirements
Impact test	Passed	Clause F.5

#### **Table 4- Heat reversion Test**

Comple Deference & Circo	Result	SS 272: 2012
Sample Reference & Sizes	200mm Ø	Requirements
Heat reversion, (%) (Hot air oven)	1.1	5 max.

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

Table 5 - Hydrostatic pressure test

Sample Reference & Sizes	Result	SS 272: 2012 Requirements
Sample Reference & Sizes	200mm Ø	
Hydrostatic pressure test	Passed	Pipe shall show no signs of leakage or any defects

Table 6 - Opacity test

Sample Beforence & Sizes	Result	SS 272: 2012
Sample Reference & Sizes	200mm Ø	Requirements
Opacity, (%)	0	The wall of the pipe shall not transmit more than 0.2% of the visible light falling on it.

## Table 7 - Determination of PVC and titanium dioxide content\*

Comple Deference 9 Circs	Results	SS 272: 2012
Sample Reference & Sizes	200mm Ø	Requirements
PVC Content, %	90.3	Min 83.3
Titanium Dioxide Content, per 100 parts by mass of PVC	1.2	Min 1.0

<sup>\*</sup>Test conducted at TUV SUD PSB PTE LTD

Ong Yeo Chuan **Testing Officer** 

Chua Peck Cheong Senior Manager

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