



TEST REPORT 2322473-OYC

Date 23 JUN 2023

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

SUBJECT:

Testing of uPVC fittings

TESTED FOR:

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

Attn: Mr Steven Eu

TEST DATE:

09 Jun 2023

METHOD OF TEST:

SS 174 : 2014 Specification for joints and fittings for use with unplasticised PVC pressure pipes

SAMPLE DESCRIPTION:

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

Size	Markings
50mm Ø	SNOW 50MM (2") BS4346 AS1477 SS174 E9050
100mm Ø	SNOW 100MM SS174 AS1477 BS4346 PS109

TEST CONDUCTED:

1. Dimensional measurements
2. Opacity
3. Softening point
4. Stress Relief
5. Resistance to internal pressure
6. Flattening



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TEST RESULTS:

Table 1 - Dimensional Measurements

Nominal diameter	Results		SS 174: 2014 Requirements Table 1	
	50mm Ø	100mm Ø	50mm Ø	100mm Ø
Minimum socket depth, L (mm)	65.2	92.7	36.0	63.0
Mean socket internal diameter at midpoint of socket depth (mm)	60.5	114.4	60.3 min. 60.6 max.	114.2 min. 114.5 max.

Table 2 - Opacity

Nominal Diameter	Result		SS 174: 2014 Requirements Clause 9.4
	50mm Ø	100mm Ø	
Opacity	Passed		Shall not transmit more than 0.2% of the visible light falling onto it

Table 3 - Softening Point

Nominal Diameter	Results		SS 174: 2014 Requirements Clause 9.1
	50mm Ø	100mm Ø	
Vicat softening temperature (VST)	Passed		≥74°C

Table 4 - Stress Relief Test

Nominal Diameter	Result		SS 174: 2014 Requirements Clause 9.2
	50mm Ø	100mm Ø	
Stress Relief	Passed		Shall show no signs blisters, excessive delamination or cracking, or signs of weld line splitting

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TEST RESULTS (CONT'D):

Table 5 - Resistance to internal pressure

Nominal Diameter	Results		SS 174: 2014 Requirements Clause 10.3
	50mm Ø	100mm Ø	
Resistance to internal pressure Test period: 1 hour	Passed		No breakage during the test period

Test pressure: 4.2 x PN 12,

Table 6 - Flattening Test

Nominal Diameter	Results		SS 174: 2014 Requirements Clause 10.1
	50mm Ø	100mm Ø	
Flattening	Passed		Shall show no evidence of splitting, cracking or breaking


 Ong Yeo Chuan
 Testing Officer


 Chua Peck Cheong
 Senior Manager

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