

Report of investigation



Phalaenopsis Sion Orchids: 8090-04

Test number: 170

Grower: SION

Administration number: 005115

Variety: Phalaenopsis SI 3468

Product code: 23050

Number of plants: 3

Pot size: 12 cm

Plant height: 60 cm

Land of origin: Netherlands

Start date: 11-10-2016

Method of investigation

We submitted the investigated plants to a sales simulation, according to the conditions mentioned in the appendix. In the consumer phase we evaluated the plants once a week. The evaluation criteria are based on the evaluation card for the specific product (www.vbn.nl). The most important criteria are the leaf quality (ornamental value foliage, scale 1-5) and when applicable, the number of good flowers. The shelf life ends when there are no good flowers left and/or the ornamental value is poor (score 1). The found average is based on the number of days in the consumer phase. The transport- and the store simulation are not included.

Results

Average longevity(days)

63,0
end of
flowering

Rejection criteria

Number of tested plants

3

Day	Phase	Ornamental value foliage	number of good Flowers	number of flowers that have ended flowering	number of rejected buds	number of buds	number of stems
0	Consumer simulation	4,7	44,3	0,0	0,0	12,0	2,0
70		4,7	18,7			0,0	

The results in the table are the average values of all tested plants.

Planten worden afgeschreven bij x aantal bloemen en knoppen:

plant 1: 22

plant 2: 27

plant 3: 34

All results per day**Observation: reject**

	Day:56	Day:63	Day:70
plant1	end of flowering		
plant2		end of flowering	
plant3			end of flowering

Observation: Ornamental value foliage

	Day:0	Day:70
plant1	5	5
plant2	4	4
plant3	5	5

Observation: number of good Flowers

	Day:0	Day:70
plant1	40.0	15.0
plant2	41.0	14.0
plant3	52.0	27.0

Observation: number of rejected buds

	Day:0
plant1	0.0
plant2	0.0
plant3	0.0

Observation: number of stems

	Day:0
plant1	2.0
plant2	2.0
plant3	2.0

Observation: number of buds

	Day:0	Day:70
plant1	5.0	0.0
plant2	13.0	0.0
plant3	18.0	0.0

Observation: number of flowers that have ended flowering

	Day:0
plant1	0.0
plant2	0.0
plant3	0.0

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The quality management system of the Postharvest Knowledge Centre is ISO 9001:2015 certified.



170. Consumer simulation day number 0



170. Consumer simulation day number 35



170. Consumer simulation day number 70

Appendix

Conditions Transport simulation

Duration (days)	7
Packaging	tray, sleeve
Temperature	15°C ± 1°C
Relative humidity	75 ± 10%
Light level	± 0 µmol s-1m-2
Light colour	n.a
Air refreshment	every 2 hours
Air speed	< 0,5 m/s
Ethylene concentration	< 0,1 ppm
Water supply	none

Conditions Store simulation

Duration (days)	6
Packaging	tray, sleeve
Temperature	20°C ± 1°C
Relative humidity	60 ± 10%
Light level	± 13,5 µmol s-1m-2
Light colour	840
Air refreshment	every 2 hours
Air speed	< 0,5 m/s
Ethylene concentration	< 0,1 ppm
Water supply	if necessary

Conditions Consumer simulation

Duration (days)	70
Packaging	-
Temperature	20°C ± 1°C
Relative humidity	60 ± 10%
Light level	± 13,5 µmol s-1m-2
Light colour	840
Air refreshment	every 2 hours
Air speed	< 0,5 m/s
Ethylene concentration	< 0,1 ppm
Water supply	if needed

Key to symbols

Kind of observation: Ornamental value foliage

5	excellent, product without defects, 0% affected
4	good, product with minor quality criticism 0-5% affected
3	satisfactory, product is still suitable for sale, 5-15% affected
2	moderate, product is not suitable for sale, 15-25% affected
1	poor, product which a consumer will discard, >25% affected