Report of investigation

Phalaenopsis Sion Orchids: 8090-04
Test number: 577
Grower: SION
Administration number: 005115
Variety: Phalaenopsis B 90342
Product code: 23050

Number of plants:	3
Pot size:	12 cm
Plant height:	50 cm
Land of origin:	Netherlands

Start date: 23-12-2020

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)	67,7
Percentage reached at day 56	100 %
Rejection criteria	end of flowering
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	Black heart
0	Consumer simulation	4,7	13,0	0,0	0,0	18,3	2,0	
63		4,3	14,3			1,7		
70		4,3	11,7			2,0		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: 16
plant 2: 10
plant 3: 19

All results per day

Observation: reject

	Day:63
plant1	end of flowering

Observation: Ornamental value foliage

	Day:0	Day:63	Day:70
plant1	5	4	4
plant2	4	4	4
plant3	5	5	5

Observation: number of good Flowers

	Day:0	Day:63	Day:70
plant1	16.0	13.0	7.0
plant2	9.0	10.0	9.0
plant3	14.0	20.0	19.0

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:63	Day:70
plant1	18.0	0.0	0.0
plant2	12.0	2.0	3.0
plant3	25.0	3.0	3.0

Observation: number of flowers that have ended flowering

	Day:0
plant1	0.0
plant2	0.0
plant3	0.0

Observation: Black heart

	Day:70
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.

577. Consumer simulation day number 0

577. Consumer simulation day number 35

project number 577

577. Consumer simulation day number 63

577. Consumer simulation day number 70

project number 577

Appendix

Conditions Transport simulation

Duration (days)	7
Packaging	tray, sleeve
Temperature	15ºC ± 1ºC
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	20ºC ± 1ºC
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	20ºC ± 1ºC
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 critism 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