

Report of investigation



Phalaenopsis Sion Orchids: 8090-04

Test number: 49

Grower: SION

Administration number: 005115

Variety: Phalaenopsis SI 3558

Product code: 23050

Number of plants: 3

Pot size: 12 cm

Plant height: 70 cm

Land of origin: Netherlands

Description: Phalaenopsis SI 3558

Start date: 01-07-2015

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)

>
70,0

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 | 4,3 | 13,3 | 0,0 | 0,0 | 15,0 | 2,0 |
| 70 | | 4,0 | 18,0 | | | 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: 12

plant 2: 16

plant 3: 14

All results per day

Observation: Ornamental value foliage

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

Observation: number of good Flowers

| | Day:0 | Day:70 |
|--------|--------------|---------------|
| plant1 | 14.0 | 16.0 |
| plant2 | 13.0 | 18.0 |
| plant3 | 13.0 | 20.0 |

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 | 11.0 | 0.0 |
| plant2 | 20.0 | 0.0 |
| plant3 | 14.0 | 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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49. Consumer simulation day number 0



49. Consumer simulation day number 35



49. 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 |