

## Viola Sorbet® F<sub>1</sub> Series

(*Viola cornuta*)

Annuals Culture (revised 01/23/21)

**Plug crop time:** 4.5 to 5 weeks

**Transplant to finish:** Early Spring 6 to 9 weeks, Autumn 4 to 6 weeks

- Plants cover the soil at flowering with more blooms and less stretching, and fewer PGRs are needed.
- Superior holdability and less shrink.
- Use in Autumn and Spring programs – the novelty colours have good retail and home garden appeal.

### General Information

| Exposure         | Bloom Season                                      | Height                | Spread                | Spacing          |
|------------------|---|-----------------------|-----------------------|------------------|
| Partial Sun, Sun | Early Spring, Spring, Late Spring, Autumn, Winter | 6-8 in.<br>(15-20 cm) | 6-8 in.<br>(15-20 cm) | 6 in.<br>(15 cm) |

### Germination

| Seed Form | Recommended Plug Size | Seeds/Cell | Plug Crop Weeks | Days to Germinate | Initial Media pH/EC (1:2)   | Cover Seed |
|-----------|-----------------------|------------|-----------------|-------------------|-----------------------------|------------|
| PRM, RAW  | 288                   | 1          | 5               | 3-4               | 5.5-5.8 pH<br>0.75 mmhos/cm | Yes        |

### Plug Production

|                    | Stage 1              | Stage 2                                   | Stage 3  | Stage 4  |
|--------------------|----------------------|---|--|--|
| <b>Moisture</b>    | Level 4              | Level 3-4                                 | Level 3-4  | Level 2-4  |
| <b>Temperature</b> | 65-70°F<br>(18-21°C) | 60-65°F<br>(16-18°C)                      | 60-65°F<br>(16-18°C)   | 55-60°F<br>(13-16°C)   |
| <b>Light</b>       | Optional             | 2,500 f.c.<br>(26,900 Lux)                | 2,500 f.c.<br>(26,900 Lux)                                   | 5,000 f.c.<br>(53,800 Lux)                                   |
| <b>Fertilizer</b>  |                      | Less than 100 ppm N<br>(Less than 0.7 EC) | 100 to 175 ppm N<br>(0.7 to 1.2 EC)                          | 100 to 175 ppm N<br>(0.7 to 1.2 EC)                          |
| <b>PGR</b>         |                      |   | ancymidol/5-10 ppm/Spray<br>daminozide/1,500-2,500 ppm/Spray | ancymidol/5-10 ppm/Spray<br>daminozide/1,500-2,500 ppm/Spray |

### Propagation Key Tips

Adjust PGR rates and frequency of application depending on local conditions in Stages 3 and 4.

### Growing on to Finish

| Growing on Temperature                         | Target Media pH/EC (1:2)   | Fertilizer                          | Daylength            |
|--|----------------------------|-------------------------------------|----------------------|
| (day) 60°F (16°C)<br>(night) 50-55°F (10-13°C) | 5.5-5.8 pH<br>1.5 mmhos/cm | 100 to 175 ppm N<br>(0.7 to 1.2 EC) | Facultative Long Day |

## Crop Scheduling

| Container Size | Plugs/Pot | Crop Time   | Season       | PGR                              |
|----------------|-----------|-------------|--------------|----------------------------------|
| Cell Pack      | 1 (ppp)   | 5-7 (weeks) | Early Spring | daminozide 1,500-2,500 ppm Spray |
| 4"/4.5"/Quart  | 1 (ppp)   | 5-7 (weeks) | Early Spring | daminozide 1,500-2,500 ppm Spray |
| 5"/6"/1 Gallon | 3 (ppp)   | 5-7 (weeks) | Early Spring | daminozide 1,500-2,500 ppm Spray |
| Cell Pack      | 1 (ppp)   | 3 (weeks)   | Autumn       | daminozide 2,500-5,000 ppm Spray |
| 4"/4.5"/Quart  | 1 (ppp)   | 4-5 (weeks) | Autumn       | daminozide 2,500-5,000 ppm Spray |
| 5"/6"/1 Gallon | 3 (ppp)   | 3-4 (weeks) | Autumn       | daminozide 2,500-5,000 ppm Spray |

## Fertilizer Notation

A week after transplant, begin fertilizing with 150 ppm N once a week when grown in the greenhouse. Additional fertilization may be needed if grown outside. Maintain an EC of 1.5 and a pH of 5.6 to 5.8 after transplant until finish. Alternate between an acidic fertilizer, such as 20-10-20, and a basic fertilizer, such as 15-5-15 calcium/magnesium, for pH balance. If the media pH is greater than 6.0, then take corrective measures to lower the pH to the desired level.

## Common Problems

Diseases: Damping-off, black root rot, foliar leaf spots and Botrytis blight are common. Insects: Fungus gnats and shore flies can be problem pests during plug production. Aphids, thrips, mites and whiteflies can be a problem during finishing stages.

## Finishing Key Tips

Adjust PGR rates and frequency of application depending on local conditions.

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

## Variety Pictures



Antique Shades



Black Delight



Carmine Rose



Fire



Honeybee



Icy Blue



Lavender Pink



Lemon Chiffon



Lilac Ice



Midnight Glow



Orchid Rose  
Beacon



Ruby Gold  
Babyface



Tiger Eye



Violet Beacon



Yellow Blue  
Jump Up

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