

Viola Sorbet[®] XP F₁ Series

(*Viola cornuta*)

Annuals Culture (revised 02/24/20)

Send the best-looking violas to retail

Grow, ship, sell and plant the best-looking violas for Spring and Autumn – Sorbet XP genetics deliver a uniform plant habit and the tightest bloom window.

Plug crop time: 4.5 to 5 weeks

Transplant to finish: Early Spring 6 to 8 weeks, Autumn 4 to 5 weeks

- Sorbet XP needs fewer PGRs, with superior holdability and less shrink.
- F₁ vigour assures greater germination, earliness, and excellent plug and garden performance.
- Violas are a key pro landscaper item and Sorbet XP excels at every turn: plants cover the soil at flowering, with more blooms on every plant and less stretching; stay compact in both heat and cold; excellent overwintering; wide range of clear colours allows for custom mixes.
- Well-suited to Spring and Autumn packs and 3.5-in./9-cm pots.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Partial Sun, Sun	Early Spring, Spring, Late Spring, Late Summer, Autumn, Winter	6-8 in. (15-20 cm)	6-8 in. (15-20 cm)	6 in. (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 0.75 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 3-4	Level 2-4
Temperature	65-70°F (18-21°C)	60-70°F (16-21°C)	60-65°F (16-18°C)	55-60°F (13-16°C)
Light	Optional	2,500 f.c. (26,900 Lux)	2,500 f.c. (26,900 Lux)	5,000 f.c. (53,800 Lux)
Fertilizer		Less than 100 ppm N (Less than 0.7 EC)	100 to 175 ppm N (0.7 to 1.2 EC)	100 to 175 ppm N (0.7 to 1.2 EC)
PGR			ancymidol/5-10 ppm/Spray daminozide/1,500-2,500 ppm/Spray	ancymidol/5-10 ppm/Spray 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) (night) 50-55°F (10-13°C)	5.5-5.8 pH 1.5 mmhos/cm	100 to 175 ppm N (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



Beaconsfield



Blackberry



Blue Blotch



Deep Orange



Delft Blue



Denim Jump Up



Lemon Ice Blotch



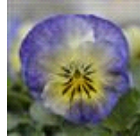
Lemon Jump Up



Marina



Morpho



Neptune



Orange Jump Up



Pink Halo



Pink Wing



Primrose Blotch



Purple



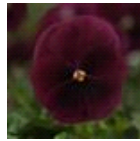
Purple Face



Raspberry



Red Blotch



Rose Blotch



True Blue



White



White Blotch



White Jump Up



Yellow



Yellow Blotch



Yellow Burgundy Jump Up



Yellow Jump Up



Yellow Pink Jump Up



YTT



Autumn Select Mixture



Blackberry Sundae Mixture



Blotch Mixture



Blueberry Sundae Mixture



Citrus Mixture



Harvest Mixture



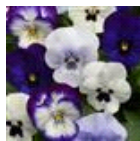
Jump Up Mixture



Lemon Parfait Mixture



Mixture



Ocean Breeze Mixture



Raspberry Sundae Mixture



Spring Select Mixture

PanAmericanSeed™

PanAmerican Seed Co.
622 Town Road, West Chicago, Illinois, USA, 60185-2698
630 231-1400 Fax: 630 231-3609 PanAmSeed.com

™ denotes a trademark of and © denotes a registered trademark of Ball Horticultural Company in the US. It may also be registered in other countries.
©2021 Ball Horticultural Company