



Blizzard Compact

Arenaria Blizzard Compact

Culture Guide

syngenta *flowers*

Botanical name: *Arenaria montana*

Product form: Seed

Containers: Quarts, Gallons

Habit: Mounding

Vernalization: Required

Garden Specifications

Garden Height: 4–8" (10–20 cm) tall

Garden Width: 6–12" (15–25 cm) wide

Exposure: Part sun

USDA zone: 4–7

AHS zone: 6–4

Product use: Containers, Landscapes

Germination

Stages 1 & 2

Germination time: 9–14 days

Media temp: 65–68 °F (18–20 °C)

Chamber: Optional

Light: Required for germination

Seed cover: Yes

Moisture level: 4 - WET: Soil is dark brown but not shiny, no free water is seen at the surface of the soil, when pressed or squeezed water drips easily, and trays are heavy with a visible bend in the middle.

Rec. tray size: 288–cell tray

Seeds per cell: 2–3

Young Plant Production

Stage 3 & 4

Temperature

Day: 64–66 °F (18–20 °C)

Night: 62–64 °F (17–18 °C)

Average daily temperature: 64 °F (18 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 200–250 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ for the first two weeks after sowing or until true leaf development occurs. Light levels can be increased up to 600 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ as rooting increases and the seedling matures.

Day length response: Obligate long day

Daily light integral: 8–10 $\text{mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$

Media pH: 5.8–6.2

Media EC: SME 0.5 to 0.75 mS/cm



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Fertilizer: 50–75 ppm N

Moisture level: Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 3.

2 - MEDIUM: Soil is light brown in color, no water can be extracted from soil, and soil will crumble apart.

3 - MOIST: Soil is brown in color, strongly squeezing the soil will extract a few drops of water, and trays are light with no visible bend.

Pinching: No

Plant growth regulators (PGRs): Not necessary

Plug grow time: 5–6 weeks in a 288–cell tray

Bulking and Vernalization

Vernalization: Required

Bulking

Bulking Time: See Scheduling Section

Temperature: 64–66 °F (18–19 °C)

Pinch: No

PGR: Not necessary

Vernalization

Vernalization Time: 8–10 weeks

Temperature: 35–40 °F (2–5 °C)

Tech tip: Growing outdoors under cold conditions will increase crop times.

Finishing

Temperature

Day: 64–66 °F (18–19 °C)

Night: 58–60 °F (14–16 °C)

Average daily temperature: 62 °F (16 °C)

Lighting

Day extension lighting: Beneficial to 14 hours

Light intensity: 800–1,200 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$

Day length response: Obligate long day

Daily light integral: 12–14 $\text{mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$

Transplanting: Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure that the root ball is covered and that the plug is situated in the center of the pot.

Media pH: 5.5–5.9

Media EC: SME EC: 1.5–2.1 mS/cm, PourThru EC: 2.3–3.2 mS/cm

Fertilizer: 75–125 ppm N

Pinching: No. Pinching is not recommended or needed.

Plant growth regulators (PGRs): If needed, B-Nine® WSG (daminozide) spray at 2,500 ppm can be used.

Tech tip: Watch EC levels as roots are sensitive to high salt concentrations.



Try Chrysal Alesco®, a postharvest foliar spray, to protect ethylene sensitive crops during shipping and retail.

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2 - MEDIUM: Soil is light brown in color, no water can be extracted from soil, and soil will crumble apart.

3 - MOIST: Soil is brown in color, strongly squeezing the soil will extract a few drops of water, and trays are light with no visible bend.

Common pests: Aphids

Common diseases: Botrytis, Pythium, Rhizoctonia

Scheduling

Size	Crop Time			Plants Per Pot
	Bulk	Vern.	Finish	
1.0 quart (4.5 to 5 inch)	5–6 weeks	8–10 weeks	8–9 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	6–7 weeks	8–10 weeks	8–9 weeks	2–3 ppp

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 62 °F (16 °C).

Example crop schedule for a 1.0 quart

Weeks From Transplant	Description
1 week	Plant two plugs in the center of the container. Start the bulking process.
5 weeks	Finish bulking the containers and start lowering the temperatures between 40–50 °F (5–10 °C) to start vernalization the containers
13 weeks	Finish the vernalization process and start to raise the temperatures to 60 °F (16 °C) to start forcing flowers.
21 weeks	Finish

