



Diabunda® Purple Picotee

syngenta®flowers

# Dianthus Diabunda®

## Culture Guide

**Botanical name:** *Dianthus × barbatus*

**Product form:** Seed

**Containers:** Packs, Pints, Quarts, Gallons, Hanging Baskets

**Habit:** Mounded

### Garden Specifications

**Garden Height:** 8–10" (20–25 cm) tall

**Garden Width:** 8–10" (20–25 cm) wide

**Exposure:** Full sun

**USDA zone:** 5

**AHS zone:** 9–1

**Product use:** Packs, Containers, Hanging Baskets, Landscapes, Combos

### Germination

Stages 1 & 2

**Germination time:** 5 days

**Media temp:** 72–74 °F (22–23 °C)

**Chamber:** Optional

**Light:** Not 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:** 1

### Young Plant Production

Stages 3 & 4

#### **Temperature**

**Day:** 66–68 °F (19–20 °C)

**Night:** 66–68 °F (19–20 °C)

**Average daily temperature:** 67 °F (19 °C)

#### **Lighting**

**Day extension lighting:** Beneficial to 14 hours

**Light intensity:** 3,500–4,500 foot candles (700–900 micro mols)

**Day length response:** Facultative long day

**Daily light integral:** 12–14 mols/day

**Media pH:** 5.5–5.9

**Media EC:** SME EC: 0.9–1.3 mS/cm

**Fertilizer:** 75–125 ppm N

**Moisture level:** Media should be allowed to dry between irrigations. Alternate between moisture level 3 and 4.

**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.

**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.

**Pinching:** No

**Plant growth regulators (PGRs):** If needed, spray with Bonzi® at 2–5 ppm or Sumagic® at 3–5 ppm.

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

**Comments:** Providing high light and dropping the temperature to an ADT of 60 °F (21 °C) will reduce the need for PGRs. Day extension lighting to 14 hours will hasten flowering of the finished plant.

### Finishing

#### **Temperature**

**Day:** 62–64 °F (17–18 °C)

**Night:** 62–64 °F (17–18 °C)

**Average daily temperature:** 63 °F (17 °C)

#### **Lighting**

**Day extension lighting:** Beneficial to 14 hours

**Light intensity:** 3,500–4,500 foot candles (700–900 micro mols)

**Day length response:** Facultative long day

**Daily light integral:** 12–14 mols/day

**Transplanting:** Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure 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:** 125–175 ppm N

**Pinching:** No. Pinching is not recommended or needed.

**Plant growth regulators (PGRs):** If needed, spray with Bonzi® at 5–8 ppm.

**Tech tip:** Providing high light and growing cool will reduce the need for PGRs. Dianthus also responds well to a 5–10 °F (3–6 °C) negative DIF in the early morning. Day extension lighting to 14 hours will hasten flowering.



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**Moisture level:** Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 4.

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

**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. .

**Common pests:** Aphids, Thrips, Spider mites

**Common diseases:** Fusarium, Alternaria, Botrytis

## Scheduling

Size	Crop Time	Plants Per Pot
Packs	5–7 weeks	1 ppp
Large Packs	5–7 weeks	1 ppp
1.0 pint (4 inch)	6–8 weeks	1 ppp
1.0 quart (4.5 to 5 inch)	6–9 weeks	1–2 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	6–9 weeks	3 ppp

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 63 °F (17 °C).

## Example crop schedule for a large pack

Weeks From Transplant	Description
1 week	Provide day extension lighting to 14 hours to hasten flowering
4 weeks	If needed, spray with Bonzi® at 5–8 ppm
7 weeks	If needed, spray with Bonzi® at 5–8 ppm
10 weeks	Ready to ship



Diabunda® Rose

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