

## Euphorbia Glitz

(*Euphorbia graminea*)

### Germination

**Approximate seed count:** 18,425-21,000 S./oz.  
(650-750 S./g)

#### Media

Use a well-drained, disease-free seedling medium with a pH of 5.8 to 6.2. Maintain EC of about 0.75 to 0.80 mS/cm (1:2 extraction).

#### Sowing

Can be produced in a 288 cell tray at 1 seed per cell, or larger cell trays at 2 seeds per cell. Covering the seed is optional. A light cover can help maintain high relative humidity around the seed and improve germination.

#### Stage 1

Germination in approximately 3 to 6 days. Move plug trays out of germination chamber as soon as radicles emerge to avoid hypocotyl stretch.

**Soil temperature:** 65 to 72°F (18 to 22°C)

**Note:** Germinates readily at temperatures of 62 to 77°F (16 to 25°C). Warmer temperatures result in faster germination.

**Light:** Light is optional.

**Moisture:** Keep soil wet (level 4) during stage 1.

**Humidity:** Maintain 95% or greater relative humidity (RH) until radicle emergence.

### Plug Production

#### Stage 2

**Soil temperatures:** 65 to 72°F (18 to 22°C)

**Light:** Up to 2,500 f.c. (26,900 Lux)

**Moisture:** Maintain high moisture (level 4).

**Fertilizer:** Apply fertilizer at rate 1 (less than 100 ppm N/less than 0.7 mS/cm EC) with a nitrate-form fertilizer with low phosphorus.

#### Stage 3

**Soil temperatures:** 65 to 72°F (18 to 22°C)

**Light:** Up to 2,500 f.c. (26,900 Lux)

**Moisture:** Soil moisture can be reduced to level 3. Keep wet-dry moisture cycle between levels 3 and 4. Avoid seedling wilting.

**Fertilizer:** Increase fertilizer to rate 2 (100 to 175 ppm N/ 0.7 to 1.2 mS/cm EC). Maintain medium pH 5.8 to 6.2 and EC between 1.0 and 1.5 mS/cm (1:2 extraction).

#### Stage 4

**Soil temperatures:** 65 to 72°F (18 to 22°C)

**Light:** Up to 5,000 f.c. (54,000 Lux).

**Moisture:** Moisture level can be reduced to medium to medium dry (level 3 to 2). Do not allow the seedlings to wilt.

**Fertilizer:** Same as stage 3

#### Growth regulators:

Daminozide (B-Nine, Alar) is effective for Glitz plug height control. Two applications of Daminozide 2,500 ppm (3 g/l, 85% formulation or 4 g/l, 64% formulation) spray starting at true leaf initial stage (early stage 3), followed by a second application 7 days later, works well for plug height control. Adding sticker to the solution may cause leaf damage.

Alternatively, a Paclobutrazol (Bonzi, Piccolo) 2.5 ppm (0.6ml/l, 0.4% formulation) spray or 0.25 to 0.5 ppm (0.06 to 0.12 ml/l, 0.4% formulation) drench at radicle emergence stage has been shown effective to control hypocotyl stretch. This treatment should be followed 7 to 14 days later with a Daminozide 2,500 ppm (3 g/l, 85% formulation or 4 to 8 g/l, 64% formulation) spray.

**Pinching:** Not recommended.

**Note:** Do not grow plugs at temperatures below 62°F (16°C) as it could cause leaves to yellow and drop.

## Growing On to Finish

**Transplanting:** Euphorbia Glitz plugs can be transplanted deeply to the level of the first node for stretched plugs.

### Container Size

**4 to 5-in (10 to 13 cm), quart pot (12 cm):** 1 plug per pot

**6-in (15 cm) pot:** 2 plugs per pot

**10-in (25 cm) HB:** 3 plugs per pot

### Media

Use a well-drained, disease-free growing medium with a pH of 5.8 to 6.2.

### Temperature

**Nights:** 65 to 68°F (18 to 20°C)

**Days:** 65 to 77°F (18 to 25°C)

Avoid temperatures below 62°F (16°C) as cooler temperatures cause foliage yellowing.

### Light

Keep light as high as possible while maintaining recommended temperature.

### Media Moisture

The medium should be allowed to dry between waterings. Do not allow the plants to wilt.

### Fertilizer

Starting a week after transplant, apply fertilizer at rate 3 (175 to 225 ppm N/1.2 to 1.5 mS/cm) once a week from nitrate-form fertilizer with low phosphorus. Maintain the media EC at 1.5 to 2.0 mS/cm at pH at 5.8 to 6.2.

### Pinching

Pinching is not necessary.

### Plant Growth Regulators

Applications of Daminozide (B-Nine, Alar) 2,500-5,000 ppm (3 to 6 g/l, 85% formulation or 4 to 8 g/l, 64% formulation) spray have been shown to be effective. Start the first application one week after transplant. Repeat as needed.

**Note:** It is the responsibility of the applicator to read and follow all current label directions for the specific chemical being used and to use the PGR in accordance with all laws and regulations.

### Crop Scheduling

**Germination:** 3 to 6 days

**Sow to Transplant (288 cell):** 4 to 5 weeks

**Transplant to finish:**

**Container Size:** 4 to 5-in. (10 to 13-cm), quart pot

**288-cell plugs per pot:** 1

**Weeks from transplant:** 5 to 8

**Total weeks\*:** 9 to 13

**Container Size:** 6-in. (15-cm) pot to 1 gallon

**288-cell plugs per pot:** 2

**Weeks from transplant:** 5 to 8

**Total weeks\*:** 9 to 13

**Container Size:** 10-in. (25-cm) basket

**288-cell plugs per pot:** 3

**Weeks from transplant:** 6 to 8

**Total weeks\*:** 10 to 13

### Common Problems

**Insect:** Thrips, aphids, and spider mites.

**Disease:** No serious problems.

### Landscape and garden performance

- Not recommended to transplant Glitz Euphorbia outdoors until temperatures are above 62°F (16°C).
- Works well solo or in mixed baskets, containers and patio planters.
- Garden location: Full sun to partial sun
- Garden spacing: 8 to 12 in. (20 to 30 cm)
- Finished height: 10 to 14 in. (25 to 35 cm)
- Finished spread: 12 to 18 in. (30 to 45 cm)

