Celosia plumosa



Fresh Look, Glorious, New Look[®], Smart Look, Fashion Look, Brainiac (c. cristata)

Product Use: Packs, pots, mixed containers and landscape

Minimum Germination Rate: 85 %

Seed Form: Pelleted, Raw (Brainiac, Glorious)

FLOWERING

Flowering Type: Obligate short day plant, requiring short days to initiate flowering.

Flowering Mechanism: Higher light intensity and warmer temperature will decrease the number of days to flower.

PLUG CULTURE

Germination: Optimum conditions for seedling development, beginning on the day of sowing until radicle emergence. Expect radicle emergence in 2-4 days.

Cover: Cover seed with a light layer of vermiculite.

Sowing method: 1 seed per plug.

Media: pH 5.5-6.0; EC 0.5 <.

Temperature: Germination temperature of 22-25 °C for the first 7-14 days. On day 14 reduce the temperature to 18-20 °C.

Moisture: Begin with a saturated (5) media moisture level to remove the seed coating and then reduce the moisuture level to a wet (4) on day 2-3. Alternate between a wet (4) and a moist (3) until all seeds have germinated.

Humidity: 95-100 % until day 5; then reduce to 40-60 %. Provide proper ventilation and horizontal airflow to improve oxygen levels in the media.

Light: Requires light for germination. Provide long days > 13 hrs. for the first 10-21 days to bulk the plant and prevent premature flower initiation. The Glorious series only requires 10-14 days to bulk the seedlings. Keep the light levels low at 6 mol/m²/day (2,000 ft. candles or 20,000 lx).

Fertilizer: On day 5 begin fertilizing at 50 ppm using a well balanced feed. Use a 17-5-17 fertilizer or similar and include supplemental iron at 0.5 ppm. Maintian the EC at 0.75.

Plug Bulking and Flower Initiation: Optimum conditions during the vegetative stage from cotyledon expansion to flower initiation. This stage is when the seedlings root to the edge of the plug and reach the 2-4 true leaf stage where flower initiation occurs.

Media: pH 5.5-6.0; EC 1.0-1.25. Use a well drained media low in soluble salts.

Light: Light levels can be increased to 8-10 mol/m²/day, 2,500-3,000 ft. candles (25,000-30,000 lx).

Temperature: Maintain night temperatures of 17-18 °C and day temperatures of 21-23 °C.

Moisture: Alternate between moisture levles of wet (4) and medium (2). Let the moisture level apporach a medium (2) before re-saturating to a wet (4). Never allow the media to dry out completely.

Fertilizer: Increase the fertilizer levels by feeding at 100-150 ppm using a well balanced 17-5-17 fertilizer. Under high tlight conditions a 20-10-20 fertilizer can also be used at the same rate.

Growth Regulators: Applications of B-Nine (daminozide) sprays at 2,500 ppm work well. Bonzi (paclobutrazol) sprays and drenches can also be used. Sprays of paclobutrazol at 2-3 ppm and light drenches can be used.

Fungicides: Preventative applications of fungicides may be used for the contol of rhizoctonia and pythium.

GROWING ON

Media: pH 5.5-6.0; EC 1.25-1.5.

Light: Provide light levels of 12-16 mol/m²/day (3,500-4,500 ft. candles or 35,000-45,000 lx). Under long day conditions, in the late spring and summer, giving well established plants a short day treatment of less than 12 hrs. will shorten the finished height.

Temperature: 17-18 °C night, 18-21 °C day for the first 7-10 days or until the roots reach the bottom of the container. Thereafter the temperature may be lowered to 16-17 °C night and 18-21 °C day. An ADT (average daily temperature) of 19 °C will give the fastest finished crop.

Moisture: Alternate between moisture levels wet (4) and medium (2). In the final stages make sure to let the media dry back adequately between watering. Never allow the plants to dry out completely.

Humidity: 40-60 % humidity is ideal. Providing good ventilation and horizontal airflow will help lower the humidity and dry back the media.

Fertilizer: Celosia require a moderate feed program. Fertilize with a complete fertilizer, 17-5-17 at 150-200 ppm. Under higher light conditions use a 20-10-20 fertilizer or alternate between the two.

Growth Regulators: Applications of B-Nine (daminozide) sprays at 2,500 ppm work well. Bonzi (paclobutrazol) sprays and drenches can also be used. Sprays of paclobutrazol at 2-3 ppm and light drenches at ½-1 ppm can be used.

Fungicide: Apply fungicides during long periods of low light and high humidity.

Common Diseases: Botrytis, pythium and rhizoctonia.

Pests: Primarily aphids and thrips.

Post Harvest: Fertilize with potassium nitrate at 100 ppm 1-2 weeks prior to shipping.

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Fresh Look	35 cm	15-20 cm	Sun
Glorious	20-25 cm	15-20 cm	Sun - Partial Shade
New Look®	20-25 cm	15-20 cm	Sun
Smart Look	25-30 cm	15-20 cm	Sun
Fashion Look	25-30 cm	15-20 cm	Sun
Brainiac	15 cm	15-20 cm	Sun

Fresh Look, New Look®, Smart Look, Fashion Look:

Plug Crop Time		
288 tray	4-5 wks	
Finished Crop Time (from 288 tray)		
Packs	6-7 wks	
10 cm pots	6-7 wks	
15 cm pots	8 wks	

Glorious, Brainiac:

Plug Crop Time		
288 tray	4-5 wks	
Finished Crop Time (from 288 tray)		
Packs	4-5 wks	
10 cm pots	4-5 wks	
15 cm pots (2-3*)	5 wks	

*plants per pot