

Chrysanthemum x morifolium

Mine the perfect GemPop series for bright and intense colors. The mini decorative flowers sit uniformly on top of the canopy like gemstones waiting to shine in your retail program. Great branching and packed with flowers, this series is great for small pots and packs.



GemPop Amethyst



GemPop Citrine



GemPop Ruby



GemPop Quartz

STATUS	CULTIVAR	CULTIVAR CODE	RESPONSE TIME (WEEKS)	VIGOR	FLOWER TYPE
NEW	GemPop Amethyst	65975	7	●●○○○	Mini Decorative
NEW	GemPop Citrine	65974	7	●●○○○	Mini Decorative
NEW	GemPop Quartz	65973	7	●●○○○	Mini Decorative
NEW	GemPop Ruby	65972	7	●●○○○	Mini Decorative

●○○○○ *Compact* ●●○○○ *Medium-compact* ●●●○○ *Medium* ●●●●○ *Medium-vigorous* ●●●●● *Vigorous*

**indicates limited availability*

POT MUMS

PROPAGATION

GEMPOP

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STICKING

Rooting Hormone?	Optional with 1,200-1,500 ppm Indole-3-butyric acid (IBA)
Direct Stick Instructions	Stick cuttings in a ring towards the outside of the pot at a slight outward-facing angle. Do not cluster cuttings towards the center of the pot.
Misting instructions	Keep leaves coated and turgid (without saturating the media) until callus forms
Rooting Humidity	100% from day 0-8 Reduce from 95% to 70% from day 9-14

CONTAINER SIZE	PLANTS PER POT	VEGETATIVE TIME (WEEKS)
5" (13cm) Pan	3	4-5

FERTILITY

Fertilizer Rate	Moderate: 200 ppm N with 17-5-17 or 20-10-20 to charge media once callus forms. 200-300 ppm N with 17-5-17 thereafter
Long-Day EC Range	0.6-1.0 mS via SME
pH Range	5.8-6.2

TEMPERATURE

Average Soil Temp	68-70°F (20-21°C)
Average Air Temp	68-72°F (20-22°C)

IRRIGATION

Irrigation Frequency (after day 14)	Level 4: Keep media moderately moist at all times
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LIGHT

Vegetative Photoperiodic Requirements	Long Day
Supplemental	To maintain vegetative growth: Night interruption from 10pm-2am using minimum 10fc (108 lux).
Benefits From Shade?	Keep light levels below 4200 fc (45000 lux) until callus forms. Full sun conditions should persist thereafter.

PINCHING

Pinch when roots reach the sides and bottom of the pot leaving at least 4-7 leaves. Usually about 14-22 days after stick.

POTENTIAL DISEASES

Botrytis, Pythium, Rhizoctonia, powdery mildew

POTENTIAL PESTS

Aphids, spider mites, thrips, mealy bugs

GROWTH REGULATION

- Optional B-Nine (85% Daminozide) at 1250-2500 ppm: (7-10 day summer rotation) (10-15 day spring/rotation) (14-21 day winter rotation).
- Pot mums can be grown in a negative DIF environment with night temps at 68°F (20°C) and day temps at 64°F (18°C).

TIPS

- Place cuttings in cooler upon arrival at 46-50°F (8-10°C).
- Warning: high PGR doses or multiple applications could result in stunting or severely delayed flowering.

POT MUMS
FINISHING
GEMPOP

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FERTILITY

Fertilizer Rate	100-125 ppm N with 17-5-17
Short Day EC Range	1.0-1.5 mS via SME
pH Range	5.7-6.2

TEMPERATURE

Day Temperature	67-72°F (19-22°C)
Night Temperature	62-65°F (17-18°C)

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist at all times
Humidity	Humidity should remain between 70-85%. Humidity above 95% increases the risk of disease and should be avoided.

LIGHT

Flowering Photoperiodic requirements	Short Day
Photoperiodic Instructions	Between 12.75-13.5 hours of darkness until flower color is visible.
Supplemental	Optional on cloudy/overcast days
Benefits From Shade?	No

BUD INSTRUCTIONS

Disbudding is not required though center budding is optional.

POTENTIAL DISEASES

Botrytis, Pythium, Rhizoctonia, powdery mildew

POTENTIAL PESTS

Aphids, spider mites, thrips, mealy bugs

GROWTH REGULATION

- Optional B-Nine (85% Daminozide) at 1250-2500 ppm:
 - 7-10 day summer rotation
 - 10-15 day spring/autumn rotation
 - 14-21 day winter rotation).

TIPS

- Switching to clear water when plants are in 30% color will extend shelf life at retail and for the consumer.
- If you can read a newspaper under blackout, it's not dark enough. Streetlights, moonlight, etc should be taken into account to reduce the chance of short day interruption.
- Ensure plants are adequately spaced to promote a strong healthy crop with a rounded habit. Proper spacing accommodates plants touching slightly when full grown.
- Night temperatures above 73°F (23°C) will result in heat delay which will postpone the listed response time. Open blackcloth when complete darkness has fallen to vent stagnate hot air.
- Warning: high PGR doses or multiple applications could result in stunting or severely delayed flowering.