

Dianthus chinensis F1 Divinity

Life cycle	Annual
Family / Origin	Caryophyllaceae / Northern China
Popular uses	Outdoor containers, landscape, beds and garden, mixed containers
Mature plant height	15-20 cm (6-8")
Mature plant width	20-22½ cm (8-9")
Pot size	9-12cm (3,5-5"), 1 plant per pot
Plants per pot	1 for 9-12 cm (3½-5") pots or quarts; 3 per 15 cm (6") or gallon pots
Sun exposure	Sun or partial shade
Water requirements	Reduced, avoid wet conditions
Flowering time	Entire growing season
Media	A well-drained, porous media is best to prevent over watering pH 5.5-5.8 EC 1.0-1.5 (150-225 ppm N)
Growing temperature	Temperature for active growth 15°C(59°F) at night 16-18°C (61-64°F) at day time
Light	Increase total light energy to promote early flowering Extending day length is not necessary, but promotes bud set
Fertilizer needs	Balanced N:P:K fertilizer as needed Ammonium based fertilizers are not recommended, use calcium based fertilizers EC 1.8-2.2 (270-330 ppm N)
Crop time	14-16 weeks



Description

The genetical compact Divinity series represents the next generation of chinensis Dianthus, offering improved performance for growers and retailers. None of very little PGRs needed for production, holds better at retail due to non-stretching habit and is very uniform in greenhouse and landscape.

Growth regulators

Dianthus responds to: Chlormequat (Cycocel) and Paclobutrazol (Bonzi)

Common diseases

Botrytis, Alternaria, Leaf Spot, Fusarium Wilt

Common pests

Spider Mites, Thrips, Aphids and Whitefly

Pinching

No need, but a single pinch is recommended for a better branching. Crop time will be 1-2 weeks longer

Hardiness zone

N/A

Plug production

Seed forms	Raw and Pelleted
Seed count	1.100-1.250 seeds/gram (31.000 – 35.000 seeds/ oz); varies by lot!
Recommended plug size	480-264
Seeds cell	1
Vermiculite cover	Light cover with vermiculite
Stage 1 Germination	Growing medium temperature 21-24°C (70-75°F) EC 0.5-1 (75-150 ppm N) Radicle emergence will take place in 2-4 days Keep media moist but do not overwater Light is not necessary for germination Dianthus is very sensitive to high salt levels in stage 1 and 2
Stage 2 Stem and cotyledon	Keep media moist, lower night temperature to 18°C (64°F) Under low light conditions supplementary lighting is advised to promote compact strong seedlings EC 0.5-1.0 (75-150 ppm N)
Stage 3 Growth and development	Moisture: reduce moisture levels and allow medium to dry between watering Do not allow plants to wilt Temperature: 18-20°C (64-68°F) Fertilization EC 1.2-1.5 (180-225 ppm N)
Stage 4 Ready for transplanting	Moisture: reduce moisture levels and allow medium to dry between watering Do not allow plants to wilt Temperature: 13-15°C (55-59°F) Fertilization: see stage 3
Plug crop time	5-6 weeks
Approximate finish time	9-10 weeks
Special tips	Ensure best light conditions, especially early season, and grow dry to restrict and harden growth. Transplant on time