POLYCARBONATE
CHEMICAL COMPATIBILITY
CHART

GAVITA® HORTICULTURAL LIGHTING

Polycarbonate Chemical Compatibility Overview

Polycarbonate (PC) exhibits excellent resistance to many substances, including acids, oxidizing and reducing agents, neutral and acid salt solutions, greases, oils, detergents, saturated hydrocarbons, and alcohols.

Thermal Properties: High melting point of approximately 288°C (550°F); autoclavable.

Material Characteristics: As a thermoplastic, PC can be repeatedly heated and cooled without significant degradation.

Mechanical Strength: Exceptional impact resistance.

Incompatibilities: Not resistant to methyl alcohol, acetone, ketones, ethers, aromatic or chlorinated hydrocarbons, aqueous or alcoholic alkaline solutions, or ammonia gas.

Please Note: The information in this chart has been supplied by reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. ALWAYS test your equipment under the specific conditions of your application before permanent installation. Ratings of chemical behavior listed in this chart apply at a 48-hr exposure period. We have no knowledge of possible effects beyond this period. We do not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

CHEMICAL	COMPATIBILITY	CHEMICAL	COMPATIBILITY
Acetic Acid 20%	A[1]-Excellent	**Sodium Borate (Borax)**	A[1]-Excellent
Alcohols: Isopropyl	A[2]-Excellent	**Sodium Carbonate**	A[2]-Excellent
Citric Acid	A[1]-Excellent	**Sodium Chloride**	A[2]-Excellent
Detergents	A[1]-Excellent	**Sodium Chromate**	A[2]-Excellent
Hydrogen Peroxide 10%	A[2]-Excellent	**Sodium Peroxide**	A[2]-Excellent
Hydrogen Peroxide 100%	A-Excellent	**Sodium Sulfate**	A[2]-Excellent
Hydrogen Peroxide 30%	A[2]-Excellent	**Stoddard Solvent**	A[2]-Excellent
Hydrogen Peroxide 50%	A[2]-Excellent	**Vinegar**	A[2]-Excellent
Soap Solutions	A[1]-Excellent	**Water, Distilled**	A[2]-Excellent
Sodium Bicarbonate	A[2]-Excellent	**Water, Fresh**	A[2]-Excellent

EXPLANATION OF FOOTNOTES

1. Satisfactory to 72°F (22°C) | 2. Satisfactory to 120°F (48°C)

RATINGS: CHEMICAL EFFECT

A = Excellent.

CAUTION: Variations in chemical behavior during handling due to factors such as temperature, pressure, and concentrations can cause equipment to fail, even though it passed an initial test.