



Plastic Disinfectant Guidelines

These general guidelines are focused on household cleaners and are meant for the general public. Following the suggested guidelines may result in reducing the survival of bacteria and viruses in these environments, however the risk of transmission is always present.

Bleach Compatible with Optix® Acrylic & Vivak® PETG

- Prepare household bleach solution by mixing:
5 tablespoons (1/3 cup) bleach per gallon of water or
4 teaspoons bleach per quart of water

Diluted bleach is not stable and should be prepared weekly from concentrated stock

Follow manufacturers instructions for application.
Contact time typically measured in minutes

Isopropyl Alcohol (IPA) or Ethyl Alcohol

Compatible with Vivak® PETG & Tuffak® Polycarbonate

Use of alcohol based wipes, sprays or soaked cloths containing at least 70% alcohol. Do not dilute

Fast acting. Allow alcohol to remain on surface for at least 30 seconds or longer to disinfect

Hydrogen Peroxide Compatible with Optix® Acrylic, Vivak® PETG & Tuffak® Polycarbonate

Use 3-5% hydrogen peroxide, do not dilute. Allow to remain on surface for several minutes

Warm Soapy Water Compatible with Optix® Acrylic, Vivak® PETG & Tuffak® Polycarbonate

Vigorously wash the surface with dishwashing soap for a minimum of 20 seconds or longer, then rinse with clean water

Cleaning refers to the removal of germs, dirt and impurities from surfaces. It does not kill germs, but by removing them, it lowers their numbers and the risk of spreading infection

Disinfecting refers to using chemicals, for example, EPA-registered disinfectants, to kill germs on surfaces. This process does not necessarily clean dirty surfaces or remove germs, but by killing germs on a surface after cleaning, it can further lower the risk of spreading infection

Wear disposable gloves when cleaning and disinfecting surfaces. Gloves should be discarded after each use

If surfaces are dirty, they should be cleaned using a gentle warm dish washing soap and rinsed with clean water prior to disinfection.

Use of microfiber cloths cleans 50% better than comparable cotton towels and reduces the risk of scratching plastic.

Allow enough contact time after applying the disinfectant. If the contact time is too brief, the surface will not be thoroughly disinfected.



Piedmont Plastics®

where solutions take shape

Disinfectants/Sanitizers for Acrylic and Polycarbonate Products

Product	Cleaner/Sanitizer	Manufacturer	Compatibility
Palclad®	Hydrogen Peroxide - Pharmacy Grade	Generic	Compatible
Palclad®	Isopropyl Alcohol - Diluted with water to 70% Strength	Generic	Compatible
Palclear®	Hydrogen Peroxide - Pharmacy Grade	Generic	Compatible
Palclear®	Isopropyl Alcohol - Diluted with water to 70% Strength	Generic	Compatible
Palgard®	Hydrogen Peroxide - Pharmacy Grade	Generic	Compatible
Palgard®	Isopropyl Alcohol - Diluted with water to 70% Strength	Generic	Compatible
Palsun®	Hydrogen Peroxide - Pharmacy Grade	Generic	Compatible
Palsun®	Isopropyl Alcohol - Diluted with water to 70% Strength	Generic	Compatible
Optix®	Hydrogen Peroxide - Pharmacy Grade	Generic	Compatible
Optix®	Bleach - Household Grade	Generic	Compatible
Optix®	Isopropyl Alcohol - Diluted with Water to 30% Strength	Generic	Compatible
Optix®	Ethyl Alcohol - Pharmacy Grade	Generic	Not Compatible
Tuffak®	Steriplex SD	sBioMed, LLC	Compatible
Tuffak®	Safetec Surface Wipes	Safetec of America	Compatible
Tuffak®	Perodox RTU	CONTEC Healthcare	Compatible
Tuffak®	Prostat Sterile Wipes PS-911EB	CONTEC Healthcare	Compatible
Tuffak®	Clorox Health Care Bleach Germicidal Cleaner	Proctor & Gamble	Not Compatible
Tuffak®	Accel TB	Unimeg Corp	Not Compatible
Tuffak®	Clorox Broad Spectrum Quaternary Disinfectant Cleaner	Proctor & Gamble	Not Compatible
Tuffak®	ZEP 40	ZEP Inc.	Not Compatible
Tuffak®	ZEP Spirit II	ZEP Inc.	Not Compatible
Tuffak®	PDI Super Sani-Cloth	PDI Inc.	Not Compatible
Tuffak®	Lysol Disinfection Spray Brand III Original	Reckitt Benckiser	Not Compatible
Tuffak®	Shockwave Disinfectant	Fiberlock Technologies Inc.	Not Compatible
Tuffak®	Preempt RTU Multi-Surface Disinfectant Cleaner	CONTEC Healthcare	Not Compatible
Tuffak®	Clorox Regular Bleach 100%	Proctor & Gamble	Not Compatible
Tuffak®	Clorox Regular Bleach 50%	Proctor & Gamble	Not Compatible
Tuffak®	Clorox Regular Bleach 10%	Proctor & Gamble	Not Compatible
Tuffak®	Clorox Regular Bleach 1%	Proctor & Gamble	Not Compatible
Vivak®	Hydrogen Peroxide 28%, Isopropyl Alcohol, Soap Solution	Generic	Compatible

SPECIAL NOTES: Polycarbonate and acrylic products were tested on uncoated sheets.

Do not use unapproved cleaners or disinfectants on sheet products. Generally speaking, hydrogen peroxide and isopropyl alcohol-based sanitizers work best as disinfectants on polycarbonate and acrylic. Disinfectants containing hydroxides, dimethyl benzyl or ethyl ammonium chloride, ethylenediamines and hypochlorite will crack(craze) the polycarbonate sheets.

**Because manufacturers sometimes change their formulas without notification, compatibility in perpetuity cannot be presumed.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without-guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.