

SOLVEX®* HD

Plastic & Elastomer Compatibility



Banner Chemicals Group UK
Flying the flag of excellence for over 150 years



RECOMMENDATION

The information presented below are general classifications of how plastics and elastomers usually stand up to immersion in SOLVEX HD solvent.

Most plastic and elastomer parts are not pure formulations. They may contain pigments, flame retardants and other fillers. These additives may cause plastics and elastomers from various manufacturers to react differently when exposed to solvents.

Thus it is recommended that SOLVEX HD be tested on the specific plastics and elastomers being cleaned prior to implementing the cleaning process. Also any unknown plastic or elastomer should be tested.

LEVELS OF COMPATIBILITY

Usually Compatible:

- HDPE (High Density Polyethylene)
- Nylon 66 (Polyamide 6.6)
- PP (Polypropylene)
- LDPE (Low Density Polyethylene)
- PVC (Polyvinyl Chloride)

Often Compatible:

- SBR (styrene butadiene)
- Neoprene (Polychloroprene)
- EPDM
- Hypalon
- Butyl Rubber (polyisobutene isoprene)

Often Not Compatible:

- Epichlorohydrin homopolymer
- Silicone
- Natural Rubber

Usually Not Compatible:

- PC (Polycarbonate)
- ABS (Poly(Acrylonitrile butadiene styrene))

MORE INFORMATION

Compatibility is related to the solvent's strength to dissolve the material, the immersion time in the solvent and temperature.

Thus an elastomer on a part being cleaned for 5 minutes might be acceptable but the same elastomer may not be acceptable as a seal or gasket that may be exposed to the solvent in cleaning equipment for years.

Higher temperatures tend to increase the ability of a solvent to attack plastics or elastomers. Thus compatibility testing should be conducted at the operating temperature

It is possible that residues can leach out of a plastic or elastomer without changing the physical appearance of the part. Thus cleaning or rinsing problems are sometimes due to residues leaching out of equipment piping, seals or gaskets.

ELECTRONICS COMPATIBILITY

Components used to manufacture electronic boards are designed to be compatible with cleaning solvents. However, it is still best to test sample parts in new cleaning processes.

Identification marks that dissolve may be an indication that the component is counterfeit.

