

Usage Guidelines for Corning® Gosselin™ Plasticware

Application Note

CORNING

Plastic Characteristics

Reagents	HDPE		PS		PP		LDPE		PET	
	68°F 20°C	122°F 50°C	68°F 20°C	122°F 50°C	68°F 20°C	122°F 50°C	68°F 20°C	122°F 50°C	68°F 20°C	122°F 50°C
Perchloric acid	G	N	G	F	G	N	G	N	F	F
Phosphoric acid 85%	R	R	R	G	R	G	R	R	F	F
Sulphuric acid 20%	R	R	R	G	R	G	R	R	N	N
Trichloroacetic acid	G	F	F	N	R	G	G	F	F	N/A
Butyl alcohol	R	R	G	G	R	R	R	R	G	G
Ethyl alcohol	R	R	F	N	R	G	R	G	G	G
Methyl alcohol	R	R	F	N	R	R	R	R	G	F
Acetaldehyde	G	F	N	N	G	N	G	N	F	N
Aniline	R	G	F	F	G	F	R	G	G	F
Benzene	G	G	N	N	G	F	G	N	F	N
Potassium dichromate	R	R	R	G	R	G	R	G	F	N/A
Bromine	F	N	N	N	N	N	N	N	N	N
Bromoform	N	N	N	N	N	N	N	N	N	N
Butadiene	F	N	N	N	N	N	N	N	N	N
Cellosolve	R	R	F	F	R	G	R	G	N/A	N/A
Chlorine (moist)	G	F	N	N	G	N	G	N	N	N
Chlorine in air	R	F	F	N	G	N	G	N	N	N
Chloroform	G	F	N	N	G	F	F	N	N	N
Amyle chloride	F	N	N	N	N	N	N	N	N	N
Ethylene chloride	G	F	N	N	F	N	G	N	N	N
Ethyl chloride	F	F	N	N	F	N	F	N	N	N
Methylene chloride	G	F	N	N	F	N	F	N	N	N
Thionil chloride	N	N	N	N	N	N	N	N	N	N
Cresol	F	N	N	N	G	F	N	N	N	N
Cyclohexane	R	G	N	N	G	F	G	F	R	N/A
P-dichlorobenzene	G	F	N	N	G	F	F	N	F	F
Dioxane	G	G	N	N	G	F	G	F	R	R
Hydrogen peroxide	R	R	R	G	R	G	R	G	R	R
Gasoline	G	G	N	N	G	F	F	N	R	G
Petroleum ether	F	N	F	F	G	F	F	F	R	G
Ethyl ether	N	N	N	N	N	N	F	N	R	G
Formaldehyde	R	R	G	G	R	G	R	G	R	R
Hexane	R	R	N	N	R	R	R	R	R	R
Mineral oil	R	R	R	R	R	R	G	N	R	R
Calcium hypochlorite	R	R	G	F	R	R	R	R	R	R
Sodium hypochlorite	R	R	R	R	R	R	R	R	G	N/A
Kerosene	G	G	N	N	G	F	F	N	R	R
Methyl isobutyl ketone	R	G	N	N	G	F	G	F	G	F
Silver nitrate	R	G	G	F	R	G	G	F	R	R
Ethylene oxide	F	F	N	N	F	F	G	F	N/A	N/A
Potassium permanganate	R	R	G	G	R	G	R	G	R	R
Phenol	G	F	N	N	G	N	G	N	N	N
Propane	F	N	N	N	N	N	N	N	F	N
Turpentine	G	G	N	N	G	F	F	N	G	G
Carbon tetrachloride	G	F	N	N	G	F	F	N	R	R
Tetrahydrofuran	G	F	N	N	G	F	F	N	N	N
Trichloroethane	F	N	N	N	N	N	N	N	N	N
Trichloroethylene	F	N	R	R	N	N	N	N	F	N
Toluene	G	G	N	N	G	F	F	N	R	N
Urea	R	R	G	G	R	R	R	R	R	R
Xylene	G	F	N	N	F	N	G	N	N	N

G = Good resistance for continuous use not exceeding 30 days

F = Fair resistance for continuous use not exceeding 7 days

N = Not recommended for continual use

N/A = Not applicable

HDPE = High-density polyethylene

LDPE = Low-density polyethylene

PET = Polyethylene terephthalate

PP = Polypropylene

PS = Polystyrene

Chemical Compatibility

G = Good resistance for continuous use not exceeding 30 days

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Reagents (20°C)	HDPE	PS	PP	LDPE	PET
Weak or diluted acids	R	R	R	R	R
Strong or concentrated acids	R	F	R	R	N
Aliphatic alcohols	R	R	R	R	F
Aldehydes	G	N	G	G	G
Bases	R	R	R	R	N
Esters	G	N	G	G	G
Aliphatic hydrocarbons	G	N	G	F	G
Aromatic hydrocarbons	G	N	F	F	N
Halogenated hydrocarbons	F	N	F	N	N
Cetane	G	N	G	G	F
Oxidizing agents	F	N	F	F	F

This data is excerpted from the Corning Gosselin Product Selection Guide (CLS-G-PSG-004) and is based on information and documentation provided by our raw material suppliers and on our own many years of technical experience. Customers should test our products to ensure that they are suitable for their own specific requirements. The information provided is for guidance only and we cannot accept further responsibility.

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