

Estar™ EB062 copolyester
Chemical resistance

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Eastar™ EB062 copolyester is a resin specifically developed for extrusion blown bottles where aesthetics such as high clarity and gloss, coupled with design flexibility, drive demand. Compared to commonly used materials, Eastar EB062 runs on most standard processing equipment. Extremely high melt strength makes the resin an excellent choice when manufacturing bottles. This product offers improved toughness, melt strength, chemical resistance, excellent color, and clarity in thick-walled applications. Eastar EB062 is certified to NSF/ANSI Standard 51 for Food Equipment Materials.

The effects of various chemicals and reagents on Eastar EB062 are listed in the table. To obtain the data shown in the table, sections of an unstressed injection molded disc 3.2-mm (0.125-in.) thick were weighed. They were immersed in the chemical or reagent shown and stored at 23°C (73°F) for 12 weeks. At the

end of the test period, each sample was removed from the jar, wiped dry, and quickly weighed. The changes in percent weight were calculated. The appearance of the sample after exposure to the test medium was also recorded.

Ordinarily, a plastic would not be suggested for continuous immersion in a reagent that causes an increase of 5% or more in weight. This does not imply that a change in weight of less than 5% necessarily indicates suitability for immersion. These results give a general indication of chemical compatibility and are not intended for performance specifications. When Eastar EB062 is exposed to chemicals in environmental conditions different from those used in these tests or used in particular container or packaging designs, the results of exposure may differ significantly from those reported here. Users of Eastar EB062 should make and be guided by their own tests under conditions equivalent to or representative of those which the polymer will be subjected in service.

Reagent	% weight change	Appearance of plastic after exposure
Acetic acid (5%)	<1	No change
Acetic acid, concentrated	11	Visible haze
Acetone	14	Visible haze
Ammonium hydroxide, concentrated	<1	Discoloration, crazing, deterioration
Ammonium hydroxide (10%)	<1	Discoloration
Aniline	—	Completely deteriorated
Antifreeze	<1	No change
Brake fluid	<1	Discoloration
Citric acid (1%)	<1	No change
Cottonseed oil	<1	No change
Detergent, alconox (0.025%)	<1	No change
Diesel fuel	<1	Discoloration
Diethyl ether	3	Visible haze
Dimethyl formamide	25	Visible haze, swelling
Distilled water	<1	No change

Reagent	% weight change	Appearance of plastic after exposure
Ethyl acetate	17	Crazing
Ethyl alcohol (50%)	<1	No change
Ethyl alcohol (95%)	<1	No change
Ethylene dichloride	—	Completely deteriorated
Gasoline	<1	Discoloration
Heptane	<1	No change
Hydrochloric acid, concentrated	<1	Visible haze
Hydrogen peroxide (3%)	<1	No change
Isooctane	<1	No change
Isopropanol	<1	No change
Kerosene	<1	No change
Lipid solution (2%)	<1	No change
Methyl alcohol	<1	No change
Mineral oil	<1	No change
Motor oil	<1	No change
Nitric acid (10%)	<1	No change
Nitric acid (40%)	<1	No change
Oleic acid	<1	No change
Olive oil	<1	No change
Phenol solution (5%)	21	Discoloration, swelling
Phthalate	<1	No change
Soap solution (1%)	<1	No change
Sodium carbonate (2%)	<1	No change
Sodium carbonate (20%)	<1	No change
Sodium chloride (10%)	<1	No change
Sodium hydroxide (1%)	<1	No change
Sodium hydroxide (10%)	<1	Visible haze
Sulfuric acid (3%)	<1	No change
Sulfuric acid (30%)	<1	No change
Toluene	20	Visible haze
Transformer oil	<1	No change
Transmission fluid	<1	No change
Turpentine	<1	No change



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