

### Chemical Resistance of PETG

Reagent	% change		Appearance After Exposure
	Weight	Thickness	
Acetic Acid 5%	<1	<1	Very slight yellowing
Acetic Acid, conc.	19	18	Discolored. Swollen
Acetone	16	23	Discolored (brown), swollen, rubber like
Ammonium Hydroxide, conc.	229	220	Turned white, outside crumbling off
Ammonium Hydroxide 10%	4	4	Discolored (pink), surface has blisters
Antifreeze, Automotive Ethylene Glycol Type	<1	<1	No Change
Benzene	34	43	Discolored, rubber like
Brake fluid DOT3	2	2	No Change
Brake fluid	6	6	Turned yellow, surface attacked, flaking off
Carbon Tetrachloride	27	18	Discolored, swollen
Chromic Acid, 10%	<1	<1	Slightly Discolored
Cottonseed Oil	<1	<1	Very slight yellowing
Deionized water	<1	<1	Slight yellowing
Detergent, Alconox (0.25%)	<1	<1	Slight yellowing
Di (2-Ethylhexyl) Phthalate	<1	<1	Very slight yellowing
Dibutyl Sebacate	<1	<1	Slight yellowing
Diesel Fuel	<1	<1	Discolored
Dimethyl Formamide	22	39	Badly discolored and distorted
Ethanol, 50%	<1	<1	Slight yellowing
Ethanol, 100%	<1	<1	Very slight yellowing
Ethyl Acetate	20	24	Badly discolored and swollen, softened
Ethylene Dichloride	--	--	Completely deteriorated after 1 week
Gasohol, 10% Ethanol	9	8	Cloudy, slightly yellowing
Gasohol, 10% Methanol	11	10	Cloudy, yellowed
Gasoline, base for Gasohol	6	6	Slight yellowing
Gasoline, Premium Unleaded	2	3	Discolored
Gasoline, Regular	<1	<1	Slight yellowing
Gasoline, Regular, unleaded	2	2	Discolored
Grease, Automotive	<1	<1	No change
Hand Cleaner, Waterless Jergens SBS30	<1	2	No Change
Hexane	<1	<1	Slight yellowing
Hydrochloric Acid, conc.	1	1	Badly discolored, blisters under surface
Hydrochloric Acid, 10%	<1	<1	Slight yellowing
Hydrogen Peroxide, 3%	<1	<1	Slight yellowing
Hydrogen Peroxide, 28%	<1	<1	Slight yellowing
Isooctane	<1	<1	Very slight yellowing
Kerosene	<1	<1	Very slight yellowing
Lacquer Thinner	7	6	Cloudy, white
Methyl Alcohol<1	<1	<1	Very slight yellowing, crazing

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Mineral Oil	<1	<1	Very slight yellowing
Motor Oil	<1	<1	No change
Nitric Acid, conc.	--	--	Completely deteriorated after 1 wk.
Nitric Acid, 10%	<1	<1	Slight yellowing
Nitric Acid 40%	1	<1	Very slight yellowing
Oleic Acid 83%	<1	<1	Very slight yellowing
Olive Oil	<1	<1	Discolored
Penetrating Oil, Liquid Wrench #1	10	11	Turned black
Phenol, 5%	13	14	White, swollen
Silicone Spray Lubricant	67	34	Slight yellowing
Soap Solution 1%	<1	<1	Slight yellowing
Sodium Carbonate 2%	<1	<1	Slight yellowing
Sodium Carbonate 20%	<1	<1	Slight yellowing
Sodium Chloride 10%	<1	<1	Slight yellowing
Sodium Hydroxide 1%	<1	<1	Slight yellowing
Sodium Hydroxide 10%	8	6	Slight yellowing
Sodium Hypochlorite 3.5%	<1	<1	Slight yellowing
Sulphuric Acid. Conc.	--	--	Completely deteriorated after 1 wk.
Sulphuric Acid 3%	<1	<1	Slight yellowing
Sulphuric Acid 30%	<1	<1	Slight yellowing
Tapping Oil	<1	1	No change
Toluene	26	31	Turned white, softened
Transformer Oil	<1	<1	Very slight yellowing
Transmission Fluid, Auto	<1	<1	No change

Note- The data provided pertains to the base raw material only as used in the manufacture of Sorea material. These suggestions and data are based on information we believe to be reliable. The data is offered in good faith, but without guarantee, as conditions and method of use are beyond our control. We recommend prospective users determine the suitability of Sorea materials and suggestions before adopting on a commercial scale. In no case is Sorea, Inc. liable for direct, consequential, economic, or other damages. Sorea disclaims all other warranties, expressed or implied, including the warranty of merchantability and fitness for a particular purpose. Sorea does not recommend using its products to support human loads.