

LIST OF THE CHEMICAL RESISTANCE OF THE POLYCARBONATE USED IN NEW GENERATION EKTOR PRODUCTS

• Almost non-corrosion (good)

▲ May be corrosion under some condition (common)

✕ Corrosion (bad)

INORGANICS					
SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE
Aluminium Chloride	•	Hydrofluoric Acid 10%	•	Potassium Nitrate	•
Aluminium Sulfate	•	Hydrochloric Acid (Conc.)	▲	Potassium Permanganate	•
Ammonia	✕	Hydrogen Peroxide 30 %	•	Potassium Sulfate	•
Ammonium Fluoride	✕	Isopropanol	•	Silver Nitrate	•
Ammonium Hydroxide	✕	Lime, Chlorinated (paste) 5 %	•	Sodium Carbonate	•
Ammonium Nitrate	•	Lime, Chlorinated(sol.) 2 %	•	Sodium Chlorate	•
Ammonium Solution	✕	Magnesium Chloride	•	Sodium Chloride	•
Ammonium Sulfate	•	Magnesium Sulfate	•	Sodium Hydroxide 5%	✕
Ammonium Sulfide	✕	Mercuric Chloride	•	Sodium Hypochlorite	•
Antimony Trichloride	•	Milk of lime	▲	Sodium Nitrate	✕
Arsenic Acid 20 %	•	Nickel (II) Sulfate	•	Sodium Sulfate	•
Benzoic Acid	✕	Nitric Acid 10 %	•	Sodium Sulfide	✕
Benzyl Alcohol	✕	Nitric Acid 20 %	•	Stannous Chloride	•
Brake Fluid	✕	Nitric Acid (Conc.)	✕	Sulfur	•
Caustic Potash 5 %	✕	Ozone	✕	Sulfuric Acid 10%	•
Caustic Soda 5 %	✕	Phosphoric Acid 10 %	•	Sulfuric Acid 50%	•
Chrome Alum	•	Phosphorus Chloride	✕	Sulfuric Acid (Conc.)	✕
Chromic Acid 20%	•	Phosphorus Oxichloride	✕	Sulfuryl Chloride	✕
Copper Sulfate	•	Phosphorus Trichloride	✕	Zinc Chloride	•
Cuprous Chloride	•	Potassium Bromate	•	Zinc Sulfate	•
Hydrochloric Acid 10%	•	Potassium Hydroxide 5 %	✕		

ORGANICS					
SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE
Acetadehyde	✕	Cyclohexanol	▲	Methylene Chloride	✕
Acetic Acid (Conc.)	✕	Dimethyl Formamide	✕	Methyl Methacrylate	✕
Acetone	✕	Dioxane	✕	Nitrobenzene	✕
Acrylonitrile	✕	Ethylamide	✕	Oleic Acid	•
Benzene	✕	Ethylene Chlorohydrin	✕	Oxalic Acid	•
Bromobenzene	✕	Ethylene Chloride	✕	Pentane	•
Butyl Alcohol	•	Ethylene Dichloride	✕	Phenol	✕
Butyric Acid	✕	Ethylene Glycol	▲	Propionic Acid (Conc.)	✕
Carbonic Acid	✕	Ethyl Ether	✕	Pyridine	✕
Carbon Disulfide	✕	Formic Acid 10 %	•	Styrene	✕
Carbon Tetrachloride	✕	Formic Acid (Conc.)	✕	Tetrachloroethylene	✕
Chlorobenzene	✕	Freon	✕	Tetrahydrofuran	✕
Chloroform	✕	Glycerol	•	Thiophene(Thiofuran)	✕
Chlorothene	✕	Isoamyl Alcohol	•	Toluene	✕
Cresol	✕	Lacquer	✕	Xylene	✕
Cyclohexanone	✕	Lactic Acid 20 %	•		
Cyclohexene	✕	Methyl Alcohol	✕		

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MINERAL OILS					
SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE
Axle oil	•	Gasoline (high aromatic group)	×	Spindle oil	•
Compressor oil	•	Heating oil (mineral)	•	Silicon oil	•
Cutting oils	×	Paraffin oil	•	Transformer oil	•
Diesel oil	•	Pump oil	•	Turpentine	×

OTHERS					
SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE	SUBSTANCE	RESISTANCE
Borax	•	Detergent (non-ion)	•	Nutmeg oil	×
Cement	•	Insulating tape	•	Soap	•
Clove oil	×	Linseed oil	•	Vinegar	•
Detergent (cation)	•	Mustard oil	•	Water	•

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NOTE: The data contained in this document is for reference only
This document is subject to change without notice, E&OE

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SOURCES: Polymer Monthly (May, 1961), Makrolon® sheet: Environmental Resistance (March, 2012)