Polyester foils (digital printing)

Chemical resistance

Alcohols	Methanol Ethanol Isopropanol N-Propanol Cyclohexanol N-Butanol Gylcol Ethylene Gylcerine Benzyl Alcohol	resistant resistant resistant resistant resistant resistant resistant resistant resistant limitedly resistant
Aldehydes & Ketones	Acetaldehyde Formaldehyde Methyl Ethyl Ketone	resistant resistant resistant
Hydrocarbons	Benzene Styrene Styrene Toluene Xylene Ethyl Benzene Naptha Silicone Oil Petrol Mineral Oils & Tars	resistant resistant to 60°C non-resistant over 60°C resistant resistant resistant resistant resistant resistant resistant
Chlorinated Hydrocarbons	Carbon Tetrachloride Chloroform Trichloroethylene Chlorinated Diphenyls	limitedly resistant | causes the limitedly resistant | foil to swell limitedly resistant | at room limitedly resistant | temperature
Esters	Ethyl Acetate	resistant
Other Organic Solvents	Ether Acetone Nitrobenzene Phenol Cresol	resistant resistant non-resistant non-resistant non-resistant
Acids Hot concentrated acids cause the foil to embrittle rapidly.	50% formic acid Acetic acid (all concs.) 10% hydrochloric acid 30% hydrochloric acid 10% & 35% hydrofluoric acid 10% nitric acid 65% & 100% nitric acid 30% & 85% phosphoric acid 20% sulphuric acid 80% + sulphuric acid 48% hydrofluoric acid Dry sulphur dioxide gas	resistant resistant resistant limitedly resistant resistant resistant non-resistant resistant limitedly resistant non-resistant resistant resistant
Aqueous Alkali Solutions	10% Ammonium hydroxide 10% Sodium hydroxide 3% Sodium hydroxide	non-resistant non-resistant resistant

Salt Solutions	Dichromates Alkali carbonates Cyanides Fluorides	resistant resistant resistant resistant
Miscellaneous	Chlorine Water Hydrogen peroxide Oxygen Ammonia gas liquid Ammonia Seawater	resistant resistant resistant resistant limitedly resistant non-resistant resistant meets BS 5609

Note: These values are typical performance data for the polyester film; they are not intended to be used as design data.

Simultaneous exposure to different media may alter the resistive properties of a material! To be safe, it is advisable to test the decorative foil with the case for sufficient resistance of the material under the conditions of the specific application.
The resistance of the case depends on the used plastic material. See material data sheet on our website www.okw.com

Odenwälder Kunststoffwerke
Gehäusesysteme GmbH
Friedrich-List-Str. 3
74722 Buchen/Germany
www.okw.com