

Chemical Resistance Cycloolefin (COP)

The following table contains an evaluation of chemical resistance to a number of fluids, judged to be either aggressive or not towards COP. In general, common chemical names are used. Regarding the resistance of TPP products to chemicals, many factors need to be taken into consideration:

- exposure time
- concentration of chemicals
- thermal stress (e.g., autoclaving)
- exertion of force
- exposure to UV radiation
- aging, which may be caused by the action of detergents
- other environmental factors

TPP's recommendations based on technical literature and information provided by raw material manufacturers. They have been carefully prepared and are intended as a general guide for users of plastic materials. However, they cannot replace suitability testing performed by the user under actual working conditions. For the list of chemical resistance, the following legend is valid:

+ = Good chemical resistance	<u>+</u> = Good to limited chemical resistance		- = Poor chemical resistance	
Chemicals	СОР		Chemicals	СОР
A		н		
Acetic acid 99%	+	n-Heptane		-
Acetone	+	Hexane		-
Acrylonitrile	+	Hydrochloric acid (HCI) 36%		+
Ammonia 33%	+	Hydrogen peroxide water 30%		+
В		1		
Benzaldehyde	±	Isopropanol		+
Benzene	-	Μ		
Butanone	+	Methanol		+
С		Methylene chloride		-
Carbon tetrachloride	-	Ν		
Chloroform	-	Nitric acid (HNO ₃)		+
Cyclohexane	-	Nitric acid 40 – 50%		+
Cyclohexanone	-	0		
D		Octane		-
Detergents	+	Ρ		
Dibutyl ether	-	Pentane		-
Dichloromethane	-	S		
Diethyl ether	-	Sodium hydroxide (NaOH) 50%		+
Dimethyl sulfoxide (DMSO)	+	Sulphuric acid (H ₂ SO ₄) 95%		+
E		Sulphuric acid (H ₂ SO ₄) 40%		+
Ethanol 50%	+	Т		
Ethanol 96%	+	Toluene		-
F		X		
Fatty acid	-	Xylene		-

Source: TPP

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