

Media compatibility of the mp6-pp

In the mp6-pp the only material in contact with the media is polypropylene (PP). The following table shows the chemical resistance of polypropylene for different media. The shown data is an excerpt of the table "chemical resistance of plastics" by Buerkle GmbH

http://www.buerkle.de/media/files/Downloads/Chemische_Bestaendigkeit_DE_2012.pdf

reagent	concentration (%)	consistency (20°C/50°C)
acids		
formic acid	50; 98-100	1/2; 1/3
acetic acid	50; 90; 100	1/1; 1/2; 1/3
hydrochloric acid	20; 35; konc.	1/1; 1/2; 1/2
nitric acid	1-10; 50	1/1; 3/4
salicylic acid	saturated	1/1
sulfuric acid	1-6; 20; 40; 60; 80; 95	1/1; 1/2; 1/1; 1/3; 1/1; 3/4
sulfurous acid	saturated	1/1
uric acid	-	1/0
citric acid	saturated	1/1
bases		
sodium hydroxide	conc.	1/1
potassium hydroxide	conc.	1/1
ammonium hydroxide	5; 50	1/1; 1/2
alcohols		
ethanol	96	1/1
methanol	any	1/1
glycol	any	1/1
butanol	techn. pure	1/2
butanediol	techn. pure	1/1



propanol	-	1/1
hydrocarbons		
methane	-	1/0
cyclohexane	-	3/4
hexane	-	2/3
alkyl halides		
carbon tetrachloride	-	4/4
methylene chloride	-	4/4
trichloroethane	-	4/4
arenes		
benzene	-	3/4
toluene	-	3/4
styrene	-	3/4
others		
brake fluid	-	3/0
fuel	-	3/4
hydraulic oil	-	1/3
engine oil	-	1/3
cerosene	-	3/3
dimethyl sulfoxide (DMSO)	-	1/1

* key

- 0 no information available
- 1 very consistent/ suitable
- 2 well consistent/ suitable
- 3 consistent to a limited extent
- 4 unstable

As the data was determined under restricted test conditions, we recommend verifying the compability of the mp6-pp directly with the pumped media in the customers application. Please note that Bartels Mikrotechnik GmbH can't assume any warranty and liability if a pump gets damaged through aggressive media.

