

Comparison Table on Chemical Resistance of Urethane Rubber and the Other Materials

Chemicals		Ti-Prene	NR	EPT	NBR	CR	Nylon
Oils and Fats	Gear Oil, type 1, No. 1	◎	×	×	○	○	—
	Hydraulic Oil	◎	×	×	◎	○	—
	Silicone Oil	○	○	◎	○	○	○
Fuel Oil	Gasoline	○	×	×	○	△	◎
	A type Oil No. 1	○	×	×	○	×	—
	Gas Oil No. 1	◎	×	×	◎	△	—
Acid	Hydrochloric Acid (10%)	△	×	○	△	△	×
	Nitric Acid (10%)	×	×	○	△	○	×
	Sulfuric Acid (30%)	△	△	○	△	○	×
	Phenol (10%)	×	△	○	×	△	×
Alkali	Sodium Hypochlorite	×	△	○	○	○	×
	Sodium Hydroxide	○	◎	◎	○	◎	○
Ketone, Ether	Acetone	×	○	○	×	△	◎
	Methyl Ethyl Ketone	×	×	△	×	△	◎
Chlorinated Solvent	Trichloroethylene	×	×	×	△	×	○
	Methylene Chloride	×	×	×	×	×	—
	Carbon Tetrachloride	△	×	×	△	×	◎
Aromatic Hydrocarbon	DBP	○	△	○	×	×	—
	Xylene	△	×	×	×	×	◎
	Cresol	×	△	○	×	△	—
	Toluene	△	×	×	×	×	◎
	Benzene	×	×	×	×	×	○
Alcohol	Ethyl Alcohol	○	◎	◎	○	◎	—
	Ethylene Glycol	○	◎	◎	◎	◎	◎
	Glycerin	◎	◎	◎	◎	◎	◎

- ◎ : Little-affected
 ○ : Affected in some degree, but afford to be used.
 △ : Unadvisable to use due to certain amount of affection.
 × : Not applicable due to heavy affection.

Above listed data indicates general chemical resistant behavior such as swelling rate and etc. It does not provide any guarantees against chemical resistance. Please confirm by appropriate tests considering use conditions before use.

- These descriptions can be altered for a reason of improvement without any notification.
- These descriptions shall be as of December 1, 2010.

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