

Effects of SF₆ on resin materials

Immersion conditions: 50°C x 5 days

Resin materials	Liquid phase		Gas phase	
	Weight change rate (%)	Dimension change rate (%)	Weight change rate (%)	Dimension change rate (%)
Vinyl chloride (hard)	<0.1	<0.1	<0.1	<0.1
Vinyl chloride (flexible)	1.5	0.6	0.3	0.6
Polyethylene (high pressure)	1.4	0.3	0.2	<0.1
Polyethylene (low pressure)	0.7	0.1	0.3	0.5
Polypropylene	2.4	0.6	0.4	<0.1
Polystyrene	<0.1	-0.4	<0.1	<0.1
Polymethylmethacrylate	-0.3	-0.1	-0.2	<0.1
Polycarbonate	-0.1	-0.3	-0.2	-0.2
Polyacetal	<0.1	-0.2	-0.1	<0.1
Polyphenylene oxide	<0.1	<0.1	<0.1	<0.1
Phenolic resin	-0.3	-0.1	-0.2	<0.1
ABS resin	-0.3	-0.1	-0.2	-0.1
Nylon 66	-0.5	-0.3	-0.5	-0.4
PTFE resin	8.2	1.8	0.9	0.2
Epoxy resin (with glass)	<0.1	<0.1	<0.1	-0.2