Carbinol/Diol Modified Silicone Fluids

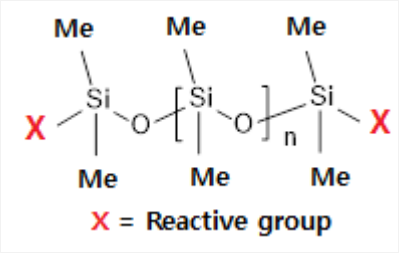
Polyurethane Additives

Carbinol/Diol series, since it has hydroxy groups, can form urethane bonds by reacting with various isocyanates for giving silicone/PU copolymer

Carbinol

Block copolymers are formed by copolymerizing bi-terminal type. It is possible to modifty physical properties because silicone chains disperse into the obtained organic resin.

As urethane modifier to improve softness, flexibility, lubricity, breathability, compatibility, abrasion resistance and water repellency of synthetic leather



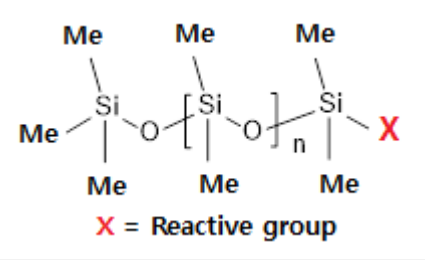
Copolymerization

: Silicone moiety
: Organic moiety

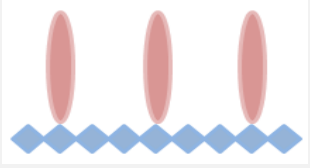
Diol

Grafted polymers are formed by copolymerizing mono-terminal type. It is possible to modify surface properties while maintaining physical properties of the obtained resin because silicone chains are formed on the organic resin.

As urethane modifier to improve water repellency, slip properties, mold release properties



Copolymerization



: Silicone moiety
: Organic moiety

Product List

Structure	Product code	Viscosity [25℃] (cP)	Hydroxy contents (mgKOH/g)	Molecular weight (g/mol)	Features
Dual-end Carbinol	SM2300P	110	22	5,000	Slip properties Heat resistance Leveling
	SM2310P	65	45	2,600	
	SM2330P	50	60	1,800	
	SM2340P	35	125	900	
Single-end Diol	SM2410L	135	23	5,000	Slip properties Water repellency Easy cleaning
	SM2420H	450	7	15,000	