

Silicone-polyurethane Copolymer Solution

Application

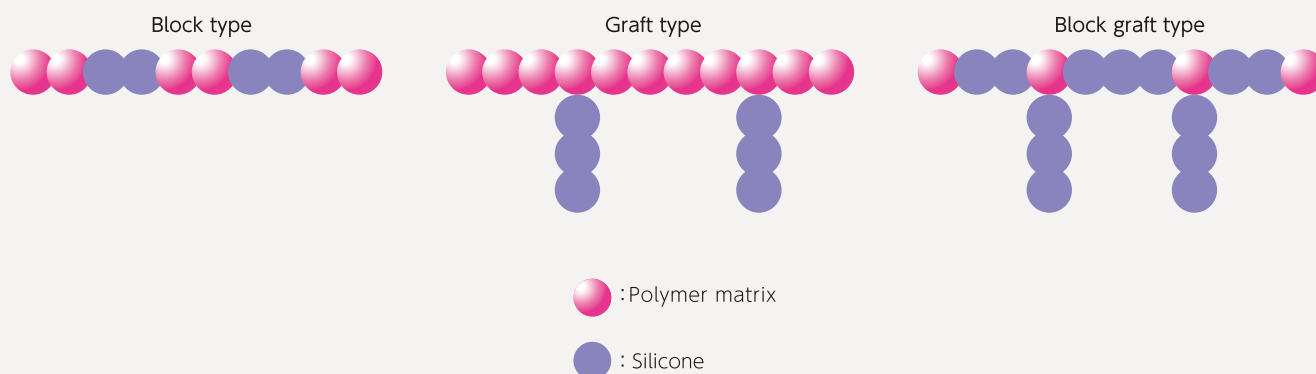
- Coating agent for functional films
- Coating agent for thermal recording materials
- Coating agent for imparting surface properties to substrates
- Release agent
- Water repellent agent

Characteristics

- SP series : silicone-based copolymer.
- Capable of forming a coating layer having the unique surface properties of silicone, after coating / drying / curing the solution consisting of general solvents.
- Various physical properties, such as non-adhesion, low-friction coefficient, chemical-resistance, electrical insulation properties, water repellency, heat-resistance, cold-resistance and oil repellency.
- Capable of improving the mechanical strength based on polymer matrix, and of reducing "bleeding" because of the copolymerization.
- Capable of choosing any of silicone contents and copolymer resins, and of performing formulation design according to application and purpose.

Structure

Three copolymer structures



Representative Products

Product name	Solid content(%)	Viscosity(mPa·s)	Solvent composition	Surface slipperiness(μk)	Combined use of crosslinking agent
SP-2105	20.0±1.5	2,000~30,000	MEK/Toluene	0.030	Yes
SP-3035	14.5±1.5	50~300	MEK/Toluene/Cyclohexanone	0.025	Yes/No

Dedicated Crosslinking Agent

Product name	Solid content(%)	Viscosity(mPa·s)	Solvent composition	Content	Note
D-70	50.0±1.5	50~300	Ethyl acetate	Polyiso - cyanate	Fast - setting