

Silaplane®

Bi-terminal Reactive Siloxanes

Product Line Overview



JNC Corporation has more than 40 years history in the development and commercialization of Silicon related materials, such as Silaplane® reactive siloxanes.

JNC's Silaplane® products are reactive polydimethylsiloxane (PDMS) based polymers offered a select molecular weights and reactive groups. These reactive silicone materials offer the addition of silicone type properties to non-Silicone materials in a variety of industries including electronics, semiconductors, automotive, biotech, healthcare, and clean energy applications.

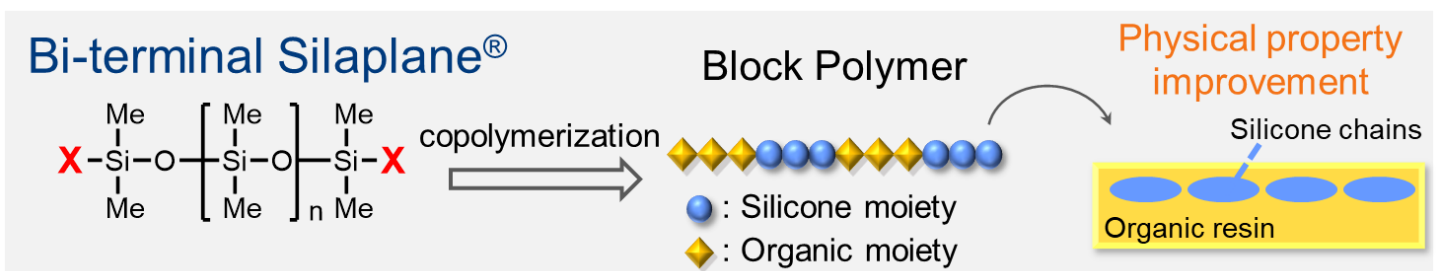
JNC's bi-terminal Silaplane® products copolymerize with various monomers and polymers to form block copolymer. Physical properties can be improved by introducing siloxane chains into the organic resin.

Product Features:

- Improve physical properties of organic resins
- React with various organic compounds (Urethane, Urea, Epoxy and Acrylic resin, Polyester, Polyamide, Polyimide)
- High affinity for organic resin especially silicone resin

Product Benefits:

- Flexibility
- Gas permeability (Oxygen, CO₂, CH₄, etc.)
- Heat resistance
- Weather resistance
- Impact resistance



Bi-terminal Silaplane[®] Product Table:

Grade	Group	Chemical structure	Molecular Weight (Mn)	Specific Gravity (25 °C)	Viscosity (mm ² /s)
FM-3311	Amino		1,000	0.95	11-15
FM-3321			5,000	0.97	90-150
FM-3325			10,000	0.97	200-400
FM-4411	Hydroxy		1,000	0.97	30-40
FM-4421			5,000	0.98	100-125
FM-4425			10,000	0.97	250-400
FM-7711	Methacryloxy		1,000	0.98	14-20
FM-7721			5,000	0.98	30-100
FM-9925A ⁽¹⁾	Silanol		10,000	0.97	110-210

The values in the table are typical values, not the product standard values.

(1) Developmental Product: Samples, data, shipments, etc. may be limited.

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Scan QR code for JNC
Silicone products.

