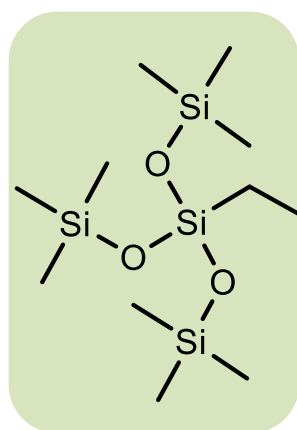


# High purity silyl monomer

## BLEMMER<sup>®</sup> SI-A (Developed product)

### Features

- **High water repellency and peelability** can be added to the surface of the coating film.
- **Low viscosity** and **good solubility** in various solvents.
- **Acrylate type, copolymerizability** with each monomer, **good UV curability**.



Tris-trimethylsilyl group:  
High water repellency and peelability

(3-Acryloxypropyl)tris(trimethylsiloxy)silane  
CAS Registry Number: 17096-12-7  
Molecular Weight: 408.8

Acryloyl group:  
Polymerization

### General Properties

Appearance



Items	Typical values
Color (APHA)	10
Purity (%)	98
viscosity (25°C:mm <sup>2</sup> /s)	4
Refractive index (25°C)	1.415

Solubility	
Solvent	30wt%
Hexane	○
Toluene	○
Ethyl acetate	○
MEK	○
2-propanol	○
Methanol	○
NMP	○
DMF	○
Water	×

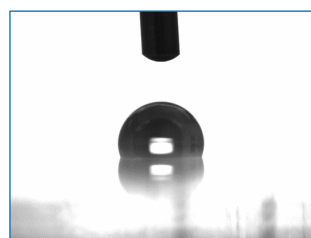
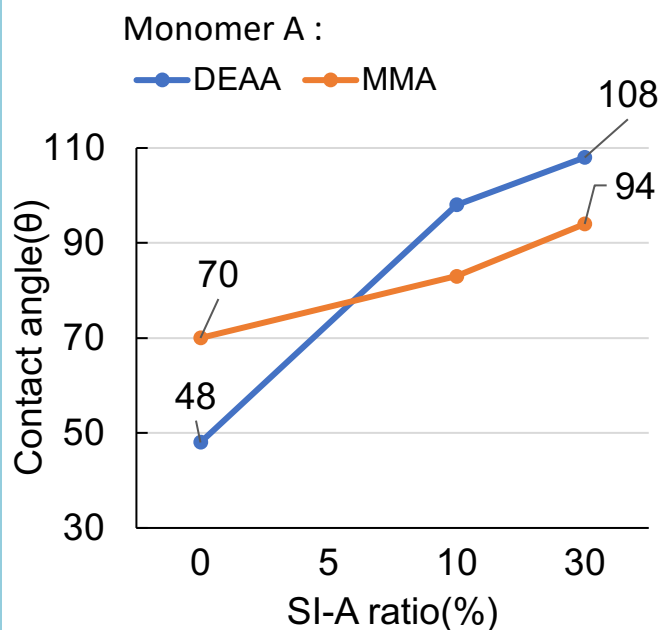
## Evaluation of water repellency of coated film

### Thermosetting system

Monomer composition: Monomer A + SI-A = 100

Drying at 80° C x 30 min after coating with copolymer of monomer A and SI-A

Substrate: Glass, Dry film thickness: 30 μm



Polymer composition:  
DEAA/SI-A=70/30(wt%)  
Droplet volume: 2 μL (water)  
Measuring device:  
Automatic contact angle meter

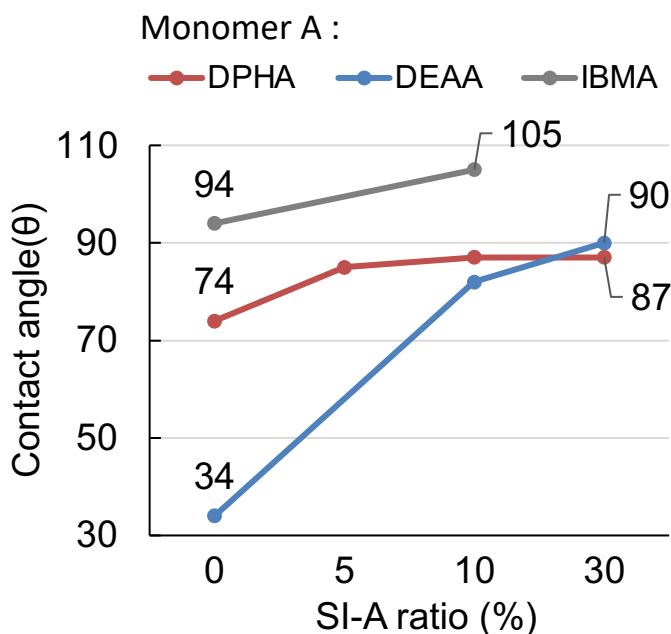
### UV curable system

Monomer composition: Monomer A + SI-A = 100

Multifunctional monomer: 10 wt% (vs. monomer)

Photoinitiator: Irgacure 907 (2wt%, vs. monomer)

Substrate: Glass, Dry film thickness: 70 μm



DEAA: N,N-diethyl acrylamide  
MMA: Methyl methacrylate  
DPHA: Dipentaerythritol hexaacrylate  
IBMA: Isobonyl methacrylate

## Chemical inventory Status

○ : Listed × : Not listed

Japan (CSCL)	China (IECSC)	Taiwan (TCSI)	South Korea (AREC)	United States (TSCA)	Europe (REACH)
○	×	○	×	×	×

The details included herein are provided for information purposes only based on the available resources, information and data at the time, but are no guarantee of the included details.

BLEMMEER is a registered trademark of NOF CORPORATION in Japan, US, EU, China, Korea and several other countries.