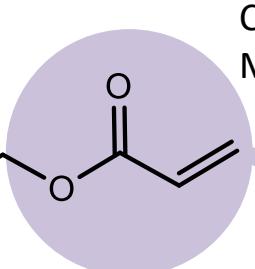
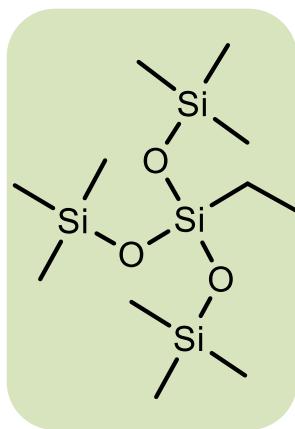


High purity silyl monomer

BLEMMER® 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**.



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

Acryloyl group:
Polymerization

Tris-trimethylsilyl group:
High water repellency and peelability

General Properties



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

Solvent	Solubility	
	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

UV curable system

Monomer composition: Monomer A + SI-A = 100

Multifunctional monomer: 10 wt% (vs. monomer)

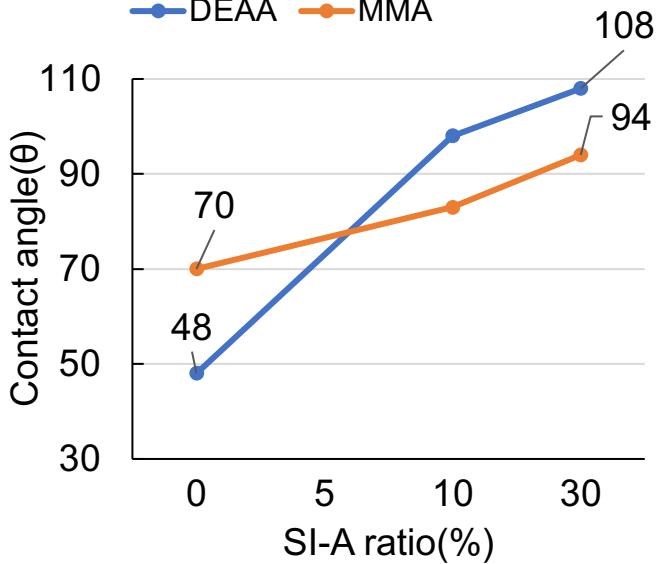
Photoinitiator: Irgacure 907 (2wt%, vs. monomer)

Substrate: Glass, Dry film thickness: 70 µm

Monomer A :

DEAA

MMA

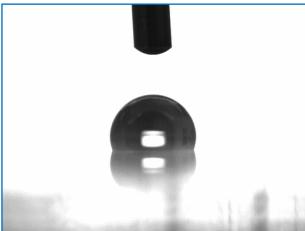
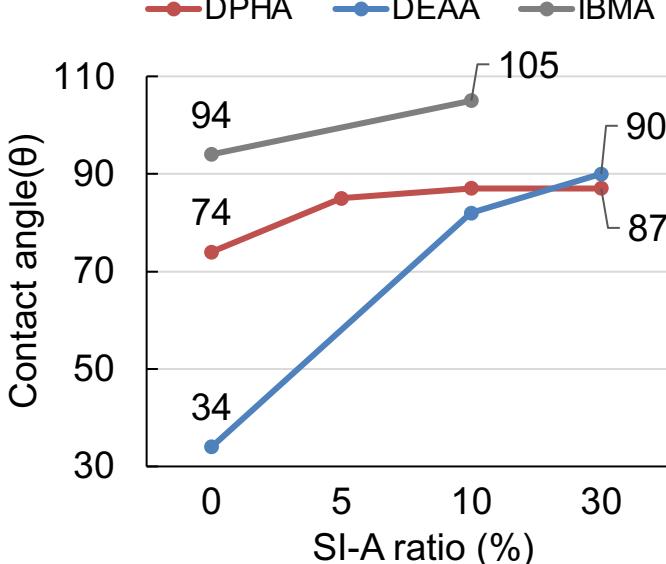


Monomer A :

DPHA

DEAA

IBMA



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

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)
○	×	○	×	×	×

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