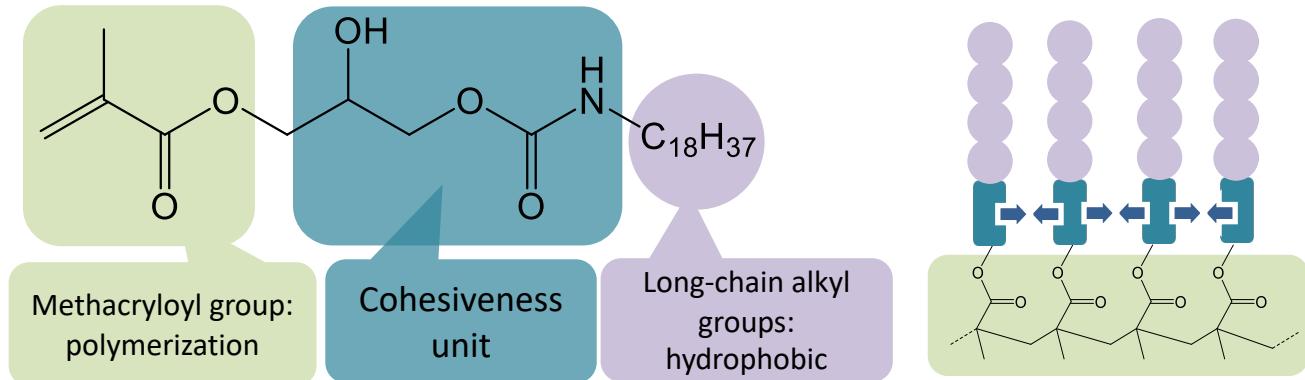


Long-chain alkyl-modified monomers

BLEMMER® HU-SP (developed product)

Features

- Compared to general-purpose long-chain alkyl monomers, it exhibits high cohesion.
- It is possible to utilize the hydroxyl group within the molecule as a reaction point.
- Environmentally-friendly monomers made from plant-derived raw materials.



Due to the effect of the flocculation unit, BLEMMER® HU-SP forms a polymer with a high density of long-chain alkyl groups, resulting in high water repellency.

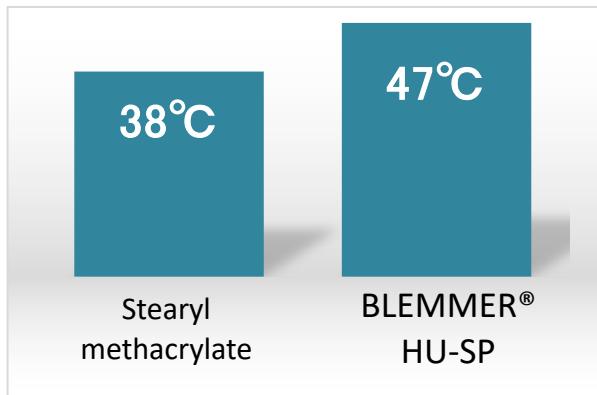
General Properties

Items	Typical value
Appearance	white solid
Acid value(mgKOH/g)	2
Solid content (%)	99

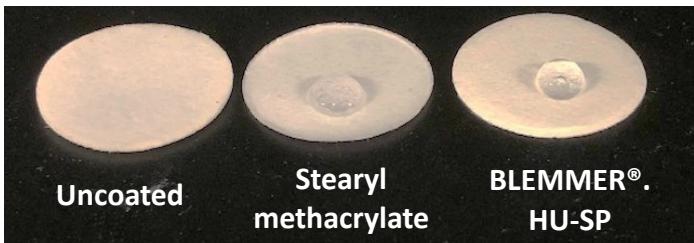


Evaluation with homopolymers

Polymers made using BLEMMER® HU-SP have a higher glass transition temperature (Tg) than conventional long-chain alkyl monomers, and also exhibit high water repellency.



Comparison of
Glass Transition Temperatures



After the polymer solution was applied to filter paper and dried, water droplets were dropped on it and the shape of the water droplets was compared. The water repellency was improved by coating with BLEMMER® HU-SP polymer.

Comparison of water repellency

Solubility of BLEMMER® HU-SP

Solvent	20°C	50°C
Hexane	✗	○
Cyclohexane	△	○
Toluene	○	○
THF	○	○
Acetone	△	○
MEK	△	○
PGMEA	△	○

Solvent	20°C	50°C
NMP	○	○
DMF	△	○
DMSO	△	△
Methanol	✗	○
2-propanol	△	○
Water	✗	✗

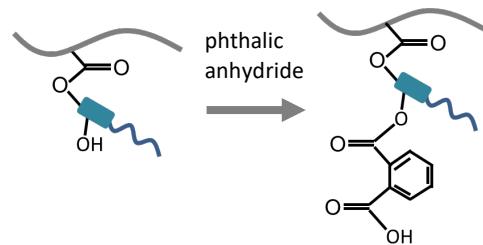
Conc.: 10 wt%, Temperature : R.T.

Criteria: ○ Soluble, △ Partially soluble, ✗ insoluble

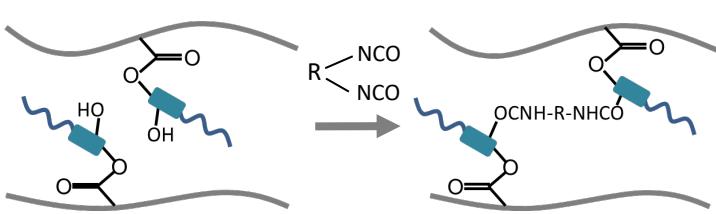
Examples of reactions using hydroxyl groups

BLEMMER® HU-SP can be used in a variety of applications by utilizing the hydroxyl groups within the molecule.

① Modification of the hydroxyl group



② Cross-linking by hydroxyl groups



By modifying the hydroxyl group, it is possible to improve the physical properties and add new functions.

By cross-linking between polymers, improvements in coating strength, etc. can be expected.

Regulatory registration status

This product is a new chemical substance under the Chemical Substances Control Law.

For details on how to provide the service, please contact your sales representative.

Polymerization of BLEMMER® HU-SP is also available upon request.

Please contact us for more details.

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.

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