1 What is Lipidure[®]

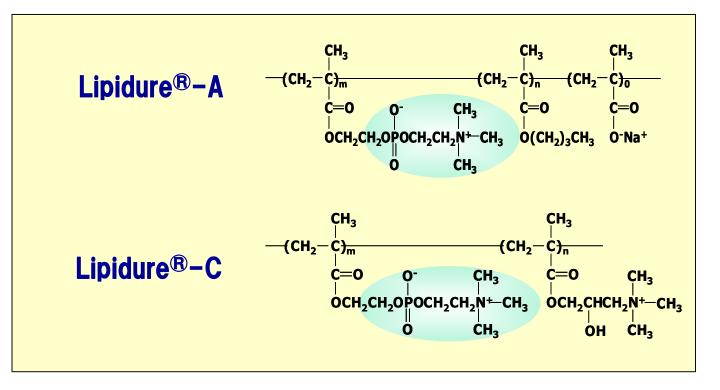
Lipidure is the polymers which consist of 2-methacryloyloxtethylphosphorylcholine (MPC) which has the same structure as polar group of phospholipid, showing high hydrophilic nature and extremely high biocompatibility. Lipidure is widely used as a coating agent for artificial organ or eye care products due to high biocompatibility.

2 Properties of Lipidure[®]-A、C

1 Lipidure[®]-A, C have haircare effect by forming hydrogel on the hair.

2 Lipidure[®]-A has anionic groups in its structure, that give plenty of moisture to hair fiber and prevent hair from spreading by reducing the static electricity

③ Lipidure[®]-C has cationic groups in its structure, that form hydrogel on hair fiber uniformly and result in giving smooth combing.



Product name	INCI	Active conc.
Lipidure [®] -A	POLYQUATERNIUM-65, WATER, PHENOXYETHANOL	5%
Lipidure [®] -C	POLYQUATERNIUM-64, WATER, PHENOXYETHANOL	5%

4 Moisture retention of Lipidure[®]-A、C

<<Method>>

(1) Weigh empty small plastic pan

(2) Pour each material solution into the pan and dry it thoroughly

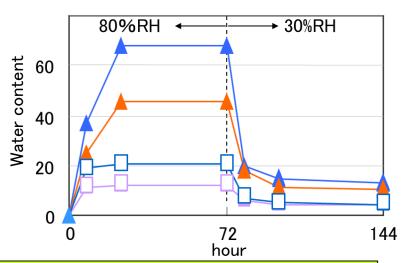
(3) Weigh each pan for the initial material weight

(4) Store at 30°C, 80%RH for 3days with weighing the pans

(5) Store at 20°C, 30%RH for 3 days with weighing the pans



Lipidure[®]-C - POLYQUATERNIUM-7



Lipidure[®]-A、C retains plenty of moisture compared to conventional film formers

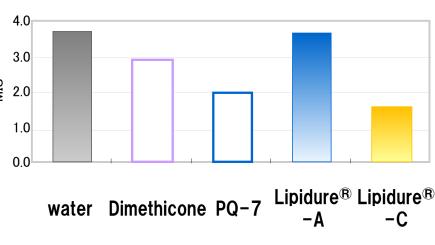
Reduction of friction of Lipidure[®]-C

<<Method>>

5

(1) Immerse the damaged hair in the polymer aqueous solution at 1% as an active matter
(2) Measure the friction of hair with

friction tester at 20°C,40%RH



Lipidure[®]-C improves smoothness of hair in wet condition

Head Office

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