



ADEKA CATIOACE PD-50

-ADEKA CATIOACE PD-50 is a cationic polymer with good antistatic and conditioning effect, used for toiletry and haircare products. In cleansing formulations, it can boost foam volume and make foam firm and elastic. Also, the foam is rinsed off quickly with no stickiness, but just rich conditioning feel is left on skin

-INCI Name: POLYQUATERNIUM-6, WATER (Chinese INCI name 聚季铵盐-6, 水)

-Packing Size: 18kg/can

***Summary**

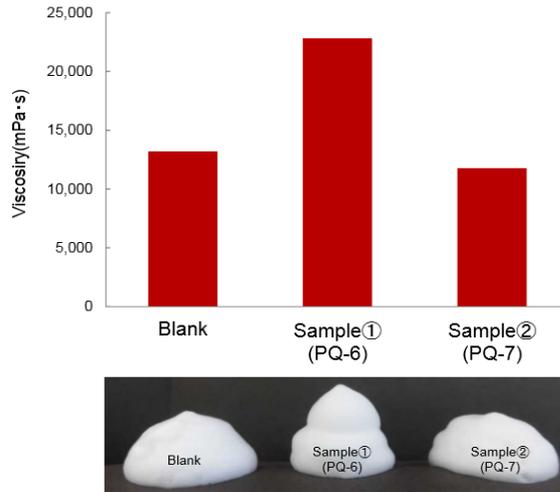
COMPOSITION	PROPERTY	CHARACTERISTICS/USE
Quaternary ammonium polymers	Semi-transparent, or transparent liquid	A cationic polymer for conditioner. Good antistatic performance, and conductivity. Can be used for hair-care products.

***Features and Functions**

- ✓ Superior conditioning and antistatic agent
- ✓ The foam rinsed off quickly with no stickiness
- ✓ Rich conditioning feel left on skin
- ✓ Improve foam volume and texture, providing rich and elastic foaming

Effect on foam performance

Foam viscosity



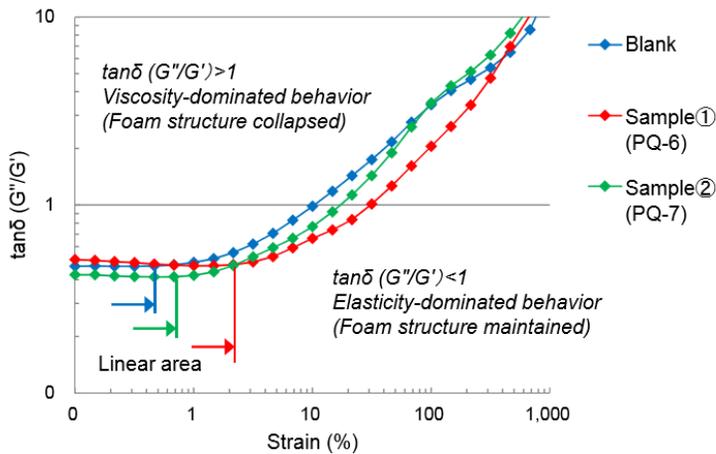
Testing procedure:

1. Fill 10% solution of sample in pump foamer.
2. Discharge the foam and measure the viscosity by B type viscometer with T-B 1.5rpm.

PD-50 can make foam firmer.

Effect on foam performance

Foam elasticity



Testing procedure

1. Fill 10% solution of sample in pump foamer.
2. Discharge the foam and measure the viscoelasticity by Rheometer.

PD-50 can provide elastic textured foam and also make foaming last longer.

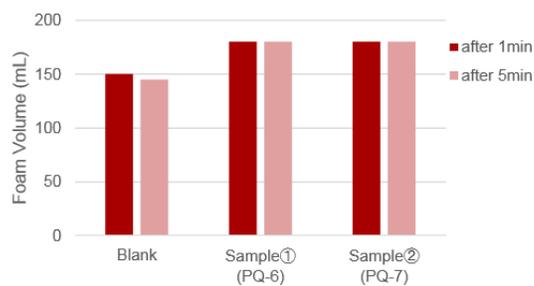
Effect on foam performance

Testing samples

	Blank	Sample ① (PQ-6 1% A.I.)	Sample ② (PQ-7 1% A.I.)
Base formula*	100.00	97.50	99.00
PD-50 (40% PQ-6 aq.)	-	2.50	-
PQ-7	-	-	1.00

*Fatty acid soap based cleanser (pH 9.0)

Foam volume



Testing procedure:

1. Mix 50ml of 2% solution of sample for 5sec in a mixer.
2. Read off foam volume after 1min and 5min.

PD-50 can boost foam volume by 20%.

-TDS, formulating guides attached