

Polymer for re-shaping hair styling with heating

COSPLAS C-1

Cosmetics Thermo-Plastic polymer

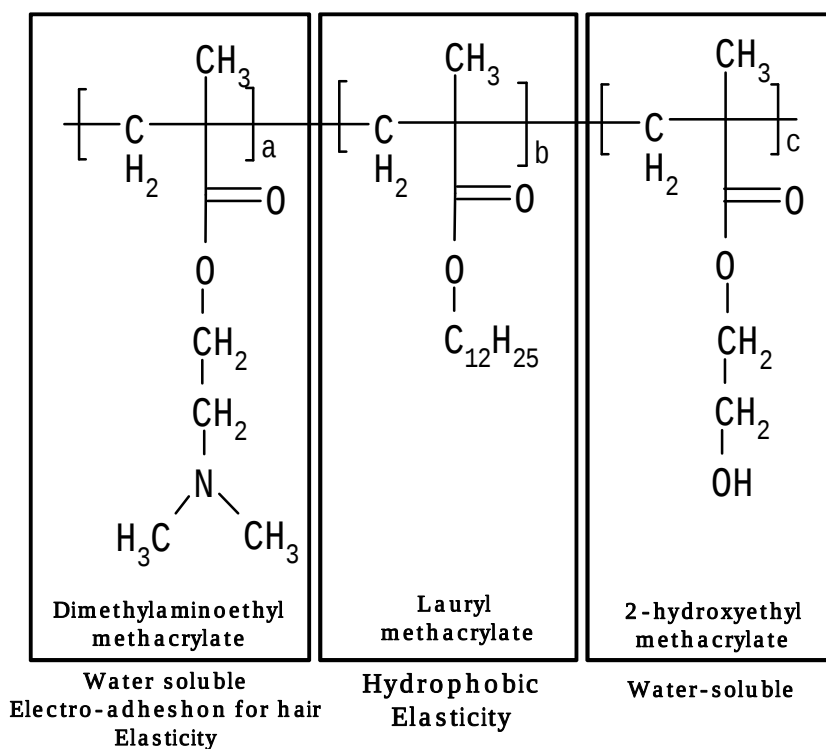
Osaka Organic Chemical Industry Ltd.

Chemical Structure of COSPLAS C-1

CONFIDENTIAL

INCI NAME ; Dimethylaminoethylmethacrylate/HEMA/Lauryl Methacrylate Copolymer
JCLD ; (メタクリル酸ジメチルアミノエチル/HEMA/メタクリル酸ラウリル) コポリマー

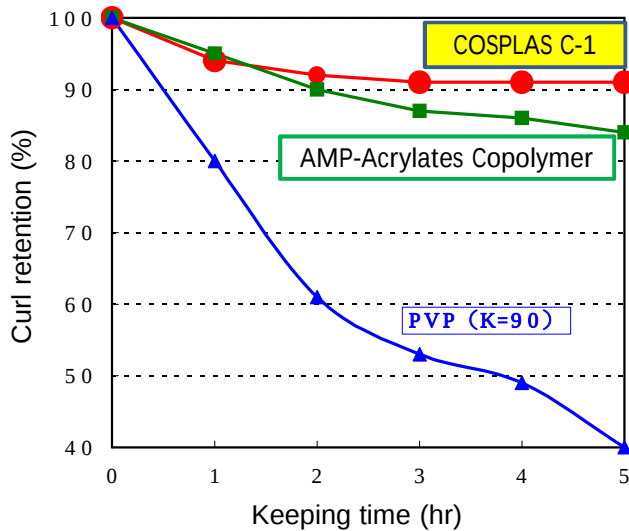
Chemical Structure of COSPLAS C 1



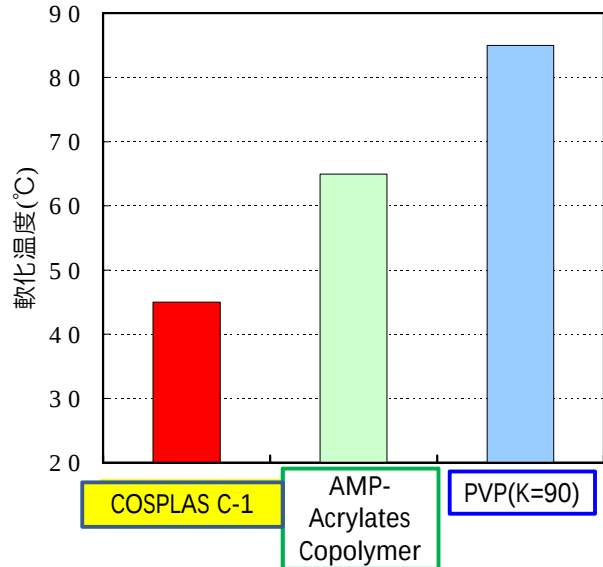
Characteristics

- A film of polymer is so elasticity.
- Long keeping hair styling.
- Good compatible for LPG gas.
- The film of COSPLAS C-1 quickly softens with heating and hardens quickly with cooling. Consumers can re-shape with heating over and over.

- Long keeping hair styling.



- The softening temperature of polymer is 45°C
A film of polymer softens with hair dryer



Re-Shaping with heating over and over

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The film of COSPLAS C-1 quickly softens with heating and hardens quickly with cooling.



Straight hair

Heating by hair dryer



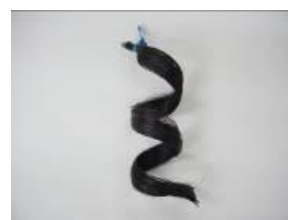
Curl hair

Consumers can re-shape with heating over and over.



Curl hair

Heating by hair dryer



Curl hair
(Reversing)

Category	INCI Name	Compatibility		
		25wt%	50wt%	100wt%
Hydro carbon	Mineral Oil	×	×	×
	Hydrogenated Polyisobutene	○	×	×
Ester	Isostearyl Isostearate	×	×	×
	Octyldodecyl Myristate	×	×	×
	Isopropyl Isostearate	○	○	○
	Propylene Glycol Isostearate	○	○	○
	Diethylhexyl Succinate	○	○	○
	Caprylic/Capric Triglyceride	○	○	○
	PPG-3 Benzyl Ether Myristate	○	○	○
Alcohol	Glycerin	×	×	×
	Glycol	○	×	×
	Propylene Glycol	○	○	×
	Triethylene Glycol	○	○	○
	Octyldodecanol	○	○	○
Silicon	Dimethicone	×	×	×
	Cyclomethicone	○	○	×
Natural oil	Olea Europaea (Olive) Fruit Oil	×	×	×
	Ricinus Communis (Castor) Seed Oil	○	○	○

Aerosol application of COSPLAS C-1

Hair wax spray

Premix composition

INCI Name	contents(wt%)
Ethanol	79.40
COSPLAS-C1	7.00
Propylene Glycol	3.00
Cetyl Alcohol	2.00
Hydrogenated Polyisobutene	2.00
Glyceryl Stearate/Acetate	2.00
Polyoxyethylene Sorbitan Monooleate	2.00
Isostearyl Isostearate	1.00
Dimethicone	1.00
Phenoxyethanol	0.50
Methylparaben	0.10
Total(Premix)	100

Aerosol

Premix composition	50.00
LPG	50.00
Total(aerosol)	100.00

Hair wax moose

Premix composition

INCI Name	contents(wt%)
Water	65.95
Ethanol	10.00
COSPLAS-C1	6.00
Phenyl trimethicone	6.00
Mineral Oil	4.80
Propylene Glycol	2.50
Dimethicone	1.40
PEG-20 Hydrogenated Castor Oil	1.30
Ceteth-20	1.00
PEG-3 Lauramide	0.45
Behenyl PG-Trimonium Chloride	0.30
Phenoxyethanol	0.20
Methylparaben	0.10
Total(premix)	100.00

Aerosol

Premix composition	10.00
LPG	90.00
Total(aerosol)	100.00

Hair wax (cream)

INCI Name	contents(wt%)
Water	62.80
COSPLAS C-1	5.00
Propylene Glycol	5.00
Microcrystalline Wax	4.00
PEG-25 Hydrogenated Castor Oil	3.00
Copernicia Cerifera (Carnauba) Wax	3.00
Behenyl Alcohol	3.00
Phenyl methicone	3.00
Glyceryl Stearate/Acetate	3.00
Hydroxyethylcellulose	2.00
Mineral Oil	2.00
Hydrogenated Polyisobutene	2.00
Dimethicone	1.00
Stearic Acid	1.00
Propylparaben	0.10
Methylparaben	0.10

<Application examples>

- For hair spray and hair wax
Re-shaping with heating over and over.
- For hair rinse and hair conditioner
Re-shaping with heating for bed hair.
- For skin care and make up
Stretching facial wrinkle

Contact us

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