

POLYMEREXPERT PRESENTS



ESTOGEL® M

Smart oil rheology modifier



Formulation Guide 2024





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About

- INCI: Castor Oil/IPDI Copolymer (and) Caprylic/Capric Triglyceride
- Appearance: Grinded gel
- Rheology: Fluid to solid
- Mechanical Properties: Hard and brittle gel
- Oil Compatibility: Polar to mid-polar
- China INCI compliant
- RSPO certified

Diluted grades available

EMC30 30% EstoGel® M, 70% Caprylic Capric Triglyceride

EMI30 30% EstoGel® M, 70% Isononyl Isononanoate

Presentation

EstoGel® M is a naturally-derived oil-gelling polymer. This smart rheology modifier gels polar to medium polar oils. It leads to transparent gels, suspends particles and stabilizes emulsions, while creating amazing textures throughout skincare and color cosmetics and providing a pleasant neutral feeling.



Technical advantage

It's a new generation of oil thickening agents based on supramolecular chemistry (short chains of polymers linked with hydrogen bondings) resulting in a light and silky touch on the skin. The gel is shear-thinner which makes it sprayable, pumpable and provides an easy spreading. EstoGel® M is processed at a minimum of 100°C, which can be high - that's why PolymerExpert offers two diluted grades which can be processed at 80°C.

Benefits

- **Encapsulation**

Permits the creation of oily micro-droplets to encapsulate active ingredients, pigments or fragrances

- **Suspension**

Allows the formation of pearly, glittery or floral oils without any sedimentation

- **Stabilization**

Enhances stability in W/O and O/W systems

- **Transparency**

Enables the creation of crystal clear gels or oils



Blue Microspheres Infused Serum

Ultra-fresh face jelly delicately infused with blue microspheres

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	EstoGel® M	Castor Oil/IPDI Copolymer (and) Caprylic/Capric Triglyceride	PolymerExpert	1.50
A	DUB MCT 5545	Caprylic/Capric Triglyceride	Stéarinerie Dubois	8.00
A	Blue (sol 0.5%)	-	-	0.50
B	Demineralized Water	Water	-	78.30
B	Phenoxyethanol	Phenoxyethanol	-	0.60
B	Carbopol® Ultrez 10	Carbomer	Lubrizol	0.18
C	Parfum Kelly Gardenia	Fragrance	H. Reynaud & Fils	0.50
D	Glycerin	Glycerin	-	10.00
D	Rhodicare® T	Xanthan Gum	Summit Cosmetics Europe	0.20
E	Sodium Hydroxide (sol. 10%)	Aqua (and) Sodium Hydroxide	-	0.22

Blue Microspheres Infused Serum



Process

- Heat up A to 100°C under stirring
- At 100°C, disperse the polymer for 30 minutes
- Add B in the main beaker
- Cool down A to 80°C
- Add C to A and mix until the blend is uniform
- Add A+C to B stirring with a very low shear (around 500rpm) for 10 minutes
- Add D and mix until the blend is uniform
- Neutralize the Carbomer with E

Benefits

- Creation of oily micro-droplets for an innovative texture
- Encapsulation technology to maximize the potency of active ingredients

Youth and Firmness

Light anti-ageing day cream

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	Demineralized Water	Water	-	67.70
A	Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	DKSH/SCHULKE	1.00
A	Glycerin	Glycerin	-	3.00
A	Propanediol	Propanediol	-	3.00
B	Sepinov™ EMT 10	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer	Seppic	0.40
C	EMC30	Caprylic/Capric Triglyceride (and) Castor Oil/IPDI Copolymer	PolymerExpert	5.00
C	DUB MCT 5545	Caprylic/Capric Triglyceride	Stéarinerie Dubois	12.30
C	Cetiol® SB 45	Butyrospermum Parkii (Shea) Butter	BASF	3.00
D	Montanov™ 68 MB	Cetearyl Alcohol (and) Cetearyl Glucoside	Seppic	2.00
E	Parfum Sublime Age	Fragrance	Mane	0.40
E	Gatuline® In-Tense MB	Caprylic/Capric Triglyceride (and) Spilanthes Acmella Flower Extract	Gattefosse	2.00
E	Copherol® 1250 C	Tocopheryl Acetate	BASF	0.20

Youth and Firmness



Process

- Heat up C to 80°C under stirring
- At 80°C, disperse the polymer for 30 minutes
- Introduce A in the main beaker and blend
- Disperse Sepinov™ EMT 10 into A
- Heat up A+B to 80°C
- Add D to C
- Emulsify for 10 minutes under high shear
- Cool down to 35°C
- Add E and stir until the blend is homogeneous

Benefits

- Sophisticated sensory experience
- Emulsion stabilization by gelling the oily phase

Anti-aging Elixir

Oily gel serum

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	EMI30	Isononyl Isononanoate (and) Castor Oil/IPDI Copolymer (and) Caprylic/Capric Triglyceride	PolymerExpert	10.00
A	DUB ININ	Isononyl Isononanoate	Stéarinerie Dubois	43.00
A	Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	-	31.95
A	Cetiol® CC	Dicaprylyl Carbonate	BASF	12.00
B	Gatuline® In-Tense MB	Caprylic/Capric Triglyceride (and) Spilanthes Acmella Flower Extract	Gattefosse	2.00
B	Copherol® 1250 C	Tocopheryl Acetate	BASF	0.50
B	Parfum Sublime Age	Fragrance	Mane	0.50
C	Hifeset 410	Synthetic Fluorophlogopite (and) Titanium Dioxide (and) Iron Oxide (and) Tin Oxide	DKSH	0.05

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Anti-aging Elixir



Process

- Introduce A in a beaker and heat up to 80°C
- At 80°C, disperse the polymer for 30 minutes
- Cool down to 40°C
- Add B to A and stir until the blend is homogeneous
- Cool to 30 - 35°C
- Add C and stir slowly

Benefits

- Non-drip oily serum
- Pearly suspension

Glowing Oil

Glittery oil with suspending properties

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	EMC30	Caprylic/Capric Triglyceride (and) Castor Oil/IPDI Copolymer	PolymerExpert	4.00
A	DUB MCT 5545	Caprylic/Capric Triglyceride	Stéarinerie Dubois	48.00
A	Cetiol® CC	Dicaprylyl Carbonate	BASF	47.50
B	Parfum Beausoleil	Fragrance	H. Reynaud & Fils	0.40
C	SunSHINE® Super Glitter Bronze	Synthetic Fluorophlogopite (and) Iron Oxides	Maprecos	0.10

Glowing Oil



Process

- Add the ingredients of phase A to a beaker
- Heat to 80°C with gentle agitation
- At 80°C, unfold the polymer under moderate agitation for 30 minutes
- Cool to 40°C
- Add the perfume and homogenize
- Add glitters and homogenize
- Cool to 30-35°C and pour into a suitable packaging

Benefits

- Nourishing body oil
- Sublimating satin skin
- Sprayable
- Transparent gel
- Glitter suspension

Perfect Cleansing Oil

Make-up remover jelly

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	EMC30	Caprylic/Capric Triglyceride (and) Castor Oil/IPDI Copolymer	PolymerExpert	16.50
A	Cetiol® C5 C	Coco-Caprylate Caprate	BASF	20.00
A	DUB MCT 5545	Caprylic/Capric Triglyceride	Stéarinerie Dubois	53.30
A	Arlatone™ TV	PEG-40 Sorbitan Peroleate	Croda	10.00
B	Parfum Beausoleil	Fragrance	H. Reynaud & Fils	0.20

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Perfect Cleansing Oil



Process

- Heat up A to 80°C under stirring
- At 80°C, disperse the polymer for 30 minutes
- Cool down to 40°C
- Add B to A and stir until the blend is homogeneous
- Cool down to 35°C
- Pour directly in the packaging

Benefits

- Thick jelly texture that breaks down into a thick oil when applied on the skin

Matte Velvet Foundation

Matte finish creamy foundation

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	EstoGel® M	Castor Oil/IPDI Copolymer (and) Caprylic/Capric Triglyceride	PolymerExpert	1.00
A	DUB MCT 5545	Caprylic/Capric Triglyceride	Stéarinerie Dubois	12.00
A	Castor Oil	Ricinus Communis (Castor) Seed Oil	Huiles Bertin	10.00
B	Emulium® Illustro	Polyglyceryl-6 Polyhydroxystearate (and) Polyglyceryl-6 Polyricinoleate	Gattefosse	4.00
C	NWD-8462	Titanium Dioxide (and) Heptyl Undecylenate (and) Hydrogenated Rapeseed Oil	Maprecos	15.94
C	NWD-9336	Iron Oxides (and) Heptyl Undecylenate (and) Hydrogenated Rapeseed Oil	Maprecos	3.20
C	NWD-7336	Iron Oxides (and) Heptyl Undecylenate (and) Hydrogenated Rapeseed Oil	Maprecos	0.62
C	NWD-2336	Iron Oxides (and) Heptyl Undecylenate (and) Hydrogenated Rapeseed Oil	Maprecos	0.24
D	Demineralized Water	Water	-	43.00
D	MgSO4	Magnesium Sulfate	-	1.00
D	Euxyl PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	DKSH / Schülke & Mayr	1.00
E	Cetiol® Ultimate	Undecane (and) Tridecane	BASF	4.00
F	Sunsil-150H	Silica	IMPAG	4.00

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Matte Velvet Foundation



Process

- Add the ingredients of Phase A to the main beaker
- Heat to 100°C with gentle agitation
- At 100°C, unfold the polymer under moderate stirring for 30 minutes
- Cool to 80°C, add the ingredients of phase B and homogenize
- Add the pigments and homogenize
- Add the ingredients of phase D into a secondary beaker, homogenize and heat to 80°C
- Emulsify by pouring phase D into the main beaker for 15 minutes with vigorous stirring
- Cool to 60°C
- Add Cetiol Ultimate and homogenize
- Add silica and homogenize
- Cool to 40°C and pour into a suitable packaging

Benefits

- Fast penetration
- Powdery and matte skin finish

Nude Gloss

The feeling of wearing nothing

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	EstoGel® M	Castor Oil/IPDI Copolymer (and) Caprylic/Capric Triglyceride	PolymerExpert	4.00
A	Castor Oil	Ricinus Communis (Castor) Seed Oil	-	70.00
A	DUB MCT 5545	Caprylic/Capric Triglyceride	Stéarinerie Dubois	12.85
A	Lusplan™ DD-DA7	Dimer Dilinoleyl Dimer Dilinoleate	Unipex	12.00
B	NWD-8462	Titanium Dioxide (and) Heptyl Undecylenate (and) Hydrogenated Rapeseed Oil	Maprecos	0.07
B	NWD-7336	Iron Oxides (and) Heptyl Undecylenate (and) Hydrogenated Rapeseed Oil	Maprecos	0.01
C	Sunshine® Soft Bronze	Synthetic Fluorophlogopite (and) Iron Oxides	Maprecos	0.02
C	Sunshine® Ultra Glitter Bronze	Synthetic Fluorophlogopite (and) Iron Oxides	Maprecos	0.05
D	Parfum Vanille Gourmande	Fragrance	Mane	1.00

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Nude Gloss



Process

- Add A into a beaker and heat up to 100°C
- At 100°C, disperse the polymer for 30 minutes
- Cool down to 85°C
- Add B and stir until the blend is homogeneous
- Add C and stir until the blend is homogeneous
- Add the fragrance and homogenize
- Pour into a suitable packaging

Benefits

- Non sticky gloss
- Thin film on the lips
- Pearls are kept in suspension

Sun Protection Gel

Sprayable clear gel

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	PARSOL® 1789	Butyl Methoxydibenzoylmethane	DSM	3.00
A	PARSOL® 340	Octocrylene	DSM	8.00
A	Neo Heliopan® OS USP	Ethylhexyl Salicylate	Symrise	5.00
A	PARSOL® HMS	Homosalate	DSM	10.00
A	Synoxyl® HSS	Trimethoxybenzylidene Pentanedione	Syntheon/Rahn	1.00
A	DUB B1215	C12-15 Alkyl Benzoate	Stéarinerie Dubois	68.80
A	EstoGel® M	Castor Oil/IPDI Copolymer (and) Caprylic/Capric Triglyceride	PolymerExpert	4.00
B	Parfum Monoi	Fragrance	H. Reynaud & Fils	0.20

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Sun Protection Gel



Process

- Add the ingredients of the phase A in a beaker
- Heat to 100°C with gentle stirring
- At 100°C, unfold the polymer under moderate stirring for 30 minutes
- Cool to 40°C
- Add the fragrance and homogenize
- Cool to 30 - 35°C and pour into a suitable packaging

Benefits

- Thick, perfectly transparent gel
- Sprayable formula

Dry Hair Gel

Gelled hair oil with a dry touch

PHASE	TRADE NAME	INCI NAME	SUPPLIER	%
A	EMC30	Caprylic/Capric Triglyceride (and) Castor Oil IPDI/Copolymer	PolymerExpert	9.00
A	Castor Oil	Ricinus Communis (Castor) Seed Oil	-	44.00
A	Isopropyl Myristate	Isopropyl Myristate	Stéarinerie Dubois	36.30
A	Jajoba Oil	Simmondsia Chinensis (Jajoba) Seed Oil	-	10.00
B	Copherol® 1250 C	Tocopheryl Acetate	BASF	0.20
B	Parfum Monoi	Fragrance	H. Reynaud & Fils	0.50

Dry Hair Gel



Process

- Add the ingredients of phase A to a beaker
- Heat to 80°C with gentle stirring
- At 80°C, unfold the polymer under moderate agitation for 30 minutes
- Cool to 40°C
- Add phase B and homogenize
- Cool to 30-35°C and pour into a suitable container

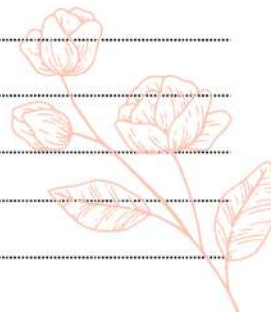
Benefits

- Transparent oily gel
- Sprayable gel
- Nourished and natural hair

Notes

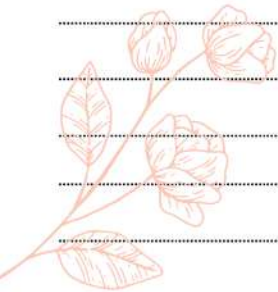


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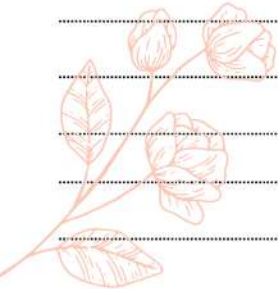
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