

# Fibers

Kobo offers a variety of natural and synthetic fibers in different lengths, thicknesses and shapes. They can be used to promote texturizing, soft focus, lengthening and volumizing effects in finished products.



## Nylon Fibers

Synthetic **Nylon** fibers are commonly used in mascara and eyebrow products for lengthening and volumizing effects.

## Natural Fibers

**CELL-U-LASH™** fibers are made of **cellulose**, a natural polymer, and vary in length from 20µm to 110µm; they are hydrophilic and disperse easily in the initial water phase of an emulsion. These fibers are an excellent choice for finished products containing natural ingredients.



SEM Image:  
KNY-3D



SEM Image:  
CELL-U-LASH™ 150

Trade Name	INCI Name	Length	Diameter	Shape	Color	Notes
KNY-3D	Nylon-66 (And) Titanium Dioxide	1.2mm	3 Denier	Fiber of uniform length	White	Synthetic
CELL-U-LASH™ 40	Cellulose	20-25µm	1-2µm	Conventional fiber strands	White	Natural; Hydrophilic; Volumizing; Soft Focus
CELL-U-LASH™ 90		60-75µm				Natural; Hydrophilic; Lengthening
CELL-U-LASH™ 150		80-110µm				



KMU-023B

## Natural Eyebrow Filler

### Part 1

- MICA S-ASG3 - Kobo Products: Mica (And) Stearoyl Glutamic Acid 15.65%
- ZNO-C-ASG3J - Kobo Products: Zinc Oxide (And) Stearoyl Glutamic Acid 15.65%
- BBO-ASG3 - Kobo Products: Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid 9.04%
- MSS-500W - Kobo Products: Silica 7.87%
- BRO-ASG3 - Kobo Products: Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid 5.50%
- BYO-ASG3 - Kobo Products: Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid 3.14%

### Part 2

- Protachem™ CTG - Protameen: Caprylic/Capric Triglyceride 18.37%
- Cetiol® CC - Cognis Corp.: Dicaprylyl Carbonate 7.60%
- SunBoost ATB Natural - Kobo Products: Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol 4.75%
- COSMOL™ 43V - Ikeda: Polyglyceryl-2 Triisostearate 3.63%
- Plandool™-LG1 - Nippon/Kobo Products: Phytosteryl/Behenyl/Octyldodecyl Lauroyl Glutamate 1.00%
- Carnauba Wax SP 63P - Strahl & Pitsch: Copernicia Cerifera (Carnauba) Wax 0.40%

### Part 3

- Vegelight™ 1214 LC - Grant Industries, Inc.: Coconut Alkanes (And) Coco-Caprylate/Caprates 5.00%
- Polyaldo™ 10-1-0 K FG - Lonza: Polyglyceryl-10 Oleate 1.00%
- Lexgard® Natural - Inolex Chemical Company: Glyceryl Caprylate (And) Glyceryl Undecylenate 0.40%

### Part 4

- CELL-U-LASH™ 40 - Kobo Products: Cellulose 1.00%

### Manufacturing Procedure

1. Blend Part 1.
2. Heat Part 2 to 80 °C under propeller agitation.
3. Slowly add Part 1 to Part 2 under prop mixer and start to gradually cool.
4. Slowly add Parts 3 and 4, respectively, to Parts 1 and 2 at 45 °C.

### Description

This natural eyebrow filler features Kobo's ASG treated fillers and pigments which help to impart color, payoff and adhesion to brows. Kobo's silica microsphere, MSS-500W, provides payoff and glide during application. SunBoost ATB Natural is a proprietary ratio of anti-oxidant, anti-irritant and anti-inflammatory agents that nourishes brows. Kobo's cellulose fiber, CELL-U-LASH™ 40, fills in brows making them appear more even and covers sparse areas. Plandool™-LG1 improves malleability of the wax complex which increases bulk transfer to the brow.

**KOBO**

USA - New Jersey  
+1 (908) 757-0033

BRASIL - São Paulo  
+55 (11) 5062-0634

UK - Abingdon  
+44 7913 636 673

FRANCE - Labege  
+33 (0)5-62-88-77-40



KMA-078A

## Global Conventional Mascara

### Part 1

- Paraffin Wax 4344 - Strahl & Pitsch: *Paraffin* 7.50%
- Lipo® GMS-450 - Vantage: *Glyceryl Stearate* 4.00%
- Carnauba Wax SP 63 - Strahl & Pitsch:  
*Copernicia Cerifera (Carnauba) Wax* 3.00%
- Dermofat 4919 - Alzo Chemical: *Stearic Acid* 3.00%
- **KOBOGUARD® HRPC** - Kobo Products:  
*Hydrogenated Polycyclopentadiene (And) Polyethylene (And)  
Copernicia Cerifera (Carnauba) Wax (Copernicia Cerifera Wax)  
(And) Tocopherol* 2.00%
- Ganex® V-216 - Ashland: *VP/Hexadecane Copolymer* 1.50%
- Apifil CG - Gattefosse: *PEG-8 Beeswax* 1.00%
- Permethil® 104A - Presperse: *Polyisobutene* 1.00%

### Part 2

- Deionized Water - *Water* 15.00%
- **BLACK NF** - Kobo Products: *Iron Oxides (CI 77499)* 10.00%
- PVP K-30 - Ashland: *Poly(Vinyl Pyrrolidone)* 0.80%
- Lexgard® O - Inolex: *Caprylyl Glycol* 0.20%
- Prisorine™ 3515 - Croda: *Isostearyl Alcohol* 0.10%
- S-6W-6 - Shin Etsu: *Simethicone* 0.05%

### Part 3

- Deionized Water - *Water* 25.95%
- Butylene Glycol - Ruger Chemical: *Butylene Glycol* 2.00%
- KAOLIN - Imerys: *Kaolin* 2.00%
- **KoboMica S-25** - Kobo Products: *Mica* 2.00%
- **MSS-500W** - Kobo Products: *Silica* 2.00%
- AMP ULTRA® PC 2000 - Angus Chemical Company:  
*Aminomethyl Propanol* 0.50%
- Natrosol® 250 HHR CS - Ashland: *Hydroxyethylcellulose* 0.30%
- Keltrol® CG - CP Kelco: *Xanthan Gum* 0.20%
- Trisodium EDTA - Spectrum Chemical: *Trisodium EDTA* 0.10%

### Part 4

- **KOBOGUARD® 50AMP-G** - Kobo Products:  
*Acrylates/Ethylhexyl Acrylate Copolymer (And) Water (And)  
Aminomethyl Propanol* 14.50%
- **KNY-3D** - Kobo Products:  
*Nylon-66 (And) Titanium Dioxide* 0.50%

### Part 5

- Euxyl® PE 9010 - Schulke & Mayr:  
*Phenoxyethanol (And) Ethylhexylglycerin* 0.80%

### Manufacturing Procedure

#### Oil Phase:

1. Combine Part 1 in side beaker. Heat to 85-90°C with slow agitation with spatula.

#### Grind Phase:

2. Add water to beaker. Prop mix and heat to 60°C.
3. Add PVP, followed by Isostearic Alcohol, Caprylyl Glycol, and Simethicone.
4. Sprinkle Black NF into the vortex. Mix until pigment is wet out.
5. Transfer to homogenizer for 30 minutes.

#### Water Phase: (main beaker)

6. Record tare weight of main beaker and sweep.
7. Add Water to the main beaker. Begin heating to 60°C with prop mixing.
8. Add Trisodium EDTA.
9. Pre-mix Butylene Glycol, Natrosol® and Xanthan Gum.
10. Add grind phase.
11. Heat to 85°C.
12. Add AMP Ultra to batch. Then sprinkle in MSS-500W, Kaolin and KoboMica S-25.
13. Add Oil phase into water phase, maintain mixing and temperature around 85°C for 15 mins.
14. Begin to air cool.
15. Change to sweep when the bulk becomes thicker.
16. Pre-mix film former with KNY-3D and add to batch at 45°C.
17. Add Euxyl® PE 9010.
18. Mix together for 5 minutes and QS missing weight with Water.
19. Cool and mix until bulk reaches 28°C.

### Description

This conventional mascara features Kobo's **KNY-3D** fibers for lengthening and volumizing effects when applied to the lashes. **KOBOGUARD® HRPC** provides a plasticizing effect to the wax complex, and allows the mascara to be buildable upon application. **KOBOGUARD® 50AMP-G** contributes to water-resistant properties. **BLACK NF** provides deep black color to the mascara. The combination of **KoboMica S-25** and **MSS-500W** provides thickness and body, while contributing to volume on the lashes.