



## YOUR ONE STOP **PLASTIC LUBRICATION** SOLUTION PROVIDER

CHEMPLASA TECHNOLOGY SDN BHD

## ABOUT **CHEMPLASA**

Chemplasa Technology Sdn Bhd is located in Tanjung Langsat Industrial Park, Pasir Gudang, Johor Bahru at the southern end of Peninsular Malaysia.

Johor Bahru is strategically located with convenient traffic accessibilities to the nearest airport located in Senai which is the Senai International Airport, Johor Port which is in Pasir Gudang and Pelabuhan Tanjung Pelepas PTP is in Gelang Patah, Johor Bahru.

Chemplasa Technology Sdn Bhd offers a wide variety of quality products applicable to the plastic industries. Our products are Ethylene Bis Stearamide (EBS), Zinc Stearate, Polarity Amide Wax, Ethylene Bis Oleamide (EBO), Pentaerythritol Tetrastearate and Polyethylene Wax.

In cooperation with our holding company, Changzhou Kesai Success Plastics Materials Co. Ltd. we swiftly expand our plan in Malaysia as the largest EBS production globally with a total capacity of 45 000.

We are powered by a confide and compact management team that produces cost competition, resilience and expeditious response to the constant market changes and customers' requirements.





### PRODUCTS

Ethylene Bis Oleamide Ethylene Bis Stearamide Pentaerythritol Tetrastearate Polyethylene Wax Zinc Stearate Polarity Amide Wax

### MODEL

L-100 Series L-200 Series L-300 Series L-400 Series L-500 Series L-1000 Series

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# L-100 SERIES

Chemical NameEthylene Bis OleamideAbbrevEBOCAS No.110 - 31 - 6

## **MAIN** APPLICATION

#### **Plastic Compounding**

- An anti-sticking agent & mold release aids for PE, PP films & PA
- Anti-blocking agent and slip agents of EVA hot melt adhesive & PVC
- Internal and external lubricants for thermoplastic and thermoset plastic.

#### **Plastic Masterbatch**

- Dispersing agent for the color pigments & filler polyolefin, ABS, PS & engineering plastics
- Increase the melt flow rate & the surface brightness of its final product.

#### **Other Applications**

- Anti-blocking agent, lubricating agent & mold release aids for rubber, elastomer & also in powder metallurgy
- Improve the fluidity of powder in powder coating;

As for all of the main application above the recommended dosages are 0.5 - 2%.

## TECHNICAL DATA

Parameters	L-101G	L-102P
Color Value (Gardner)	≤6	≤6
Acid Value (mgKOH/g)	≤10	≤10
Amine Value (mgKOH/g)	≤6	≤6
Melting Point (°C )	113-118	113-118
Fineness; mesh	20	80
Appearance	White Granule	White Powder

# L-200 SERIES

## MAIN APPLICATION

#### **Plastic Compounding**

• Internal and external lubricants in various thermoplastic and thermoset plastics, such as ABS, PS, PVC ,PA, PE, PP, PC, POM, PBT phenolic resin.

The recommended dosage is 0.5 - 2%

#### Plastic Masterbatch

- Dispersing agent for the color pigments & filler in masterbatch of polyolefin, ABS, PS, & engineering plastics.
- Dispersant for color pigments in plastic coloring.

The Recommended Dosage Is 0.5 - 5%

#### **Other applications**

- Anti-blocking agent, lubricating agent & mold release aids for rubber, elastomer & mold release aid in adhesive.
- Dispersing agent in chemical fiber masterbatch for PP & PET.
- Improve the fluidity of powder in powder coating & lubricating agent in metallurgy.
- Coating, printing inks & silicon free defoamer .
- Modified road asphalt & water proofing coating materials;
- Melting point raise agent for petroleum products.

The recommended dosage is 0.5 - 3%

Parameters	L-201G	L-202P	L-203P	L-205F	L-206F
Color Value (Gardner)	≤3	≤3	≤3	≤3	≤3
Acid Value (mgKOH/g)	≤7.5	≤7.5	≤7.5	≤7.5	≤7.5
Amine Value (mgKOH/g)	≤2.5	≤2.5	≤2.5	≤2.5	≤2.5
Melting Point (°C )	141.5~146.5	141.5~146.5	141.5~146.5	141.5~146.5	141.5~146.5
Fineness; mesh	20	80	150	200	325
Heating Loss (%)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5

## TECHNICAL DATA

**NOTE:** L-209 can be customized according to customer requirements

L-300 SERIES CAS No.

### **MAIN** APPLICATION

#### **Plastic Compounding**

- Internal/external lubricants for PC, PA, PBT, PET, PC alloy, PPO, PPS & other thermoset plastics.
- Anti-static agent & anti-fog agent in PVC, PP, PE, PS.
- Dispersing agent in PC, PA.

The recommended dosage is 0.1 - 1%

#### Plastic Masterbatch

• Dispersing agent in PC, PET, PBT, PC/ABS, PPS.

The recommended dosage is 0.5 - 3%

#### **Other Applications**

- Lubricating agent and plasticizer in rubber mastication process.
- High-end lubricant oil & lubricating agent in metal cutting and steel rolling.

The recommended dosage is 0.5 - 1%

## TECHNICAL DATA

Parameters	L-301G	L-302P
Appearance	Granular	White powder
Acid Value (mgKOH/g)	≤2	≤2
lodine Value	≤2	≤2
Color, Gardner	≤5	≤5
Melting Point (°C )	60-65	60-65

# L-400 SERIES

Chemical NamePolyethylene WaxAbbrevPE WAXCAS No.9002 - 88 - 4

### MAIN APPLICATION

#### **Plastic Compounding**

- Internal/external lubricants for thermoplastics.
- Improve the fluidity of PVC, PE, PP & ABS.
- Increase the mold release effect for PMMA & PC.

The recommended dosage is 0.5 - 2%

#### **Plastic Masterbatch**

• Dispersing agent for color & filler in polyolefin, ABS, PS and engineering plastics.

The recommended dosage is 2 - 25%

#### **Other Applications**

- Lubricant & dispersing agent in rubber;
- Dispersing agent for chemical fiber masterbatch for PP, PET, hot melt adhesive & road mark paint.
- Improve the powder fluidity in powder coating process.
- Coating & printing inks.

The recommended dosage is 0.5 - 25%

## TECHNICAL DATA

Parameters	L-401	L-402	L-403
Softening Point (°C )	95±5°C	105±5°C	110±5°C
Melt Viscosity(CPS@140°C )	10-20	20-40	500±50
Molecular Weight	1000-2000	1500-2500	5000-6000
Density (g/cm3@25℃ )	0.91-0.95	0.91-0.95	0.91-0.95
Heating Loss(%) ● 105°C * 3h (%) ● 200°C * 1h	≤0.5 ≤5.0	≤0.5 ≤5.0	≤0.2 ≤3.0
Appearance	Bead Shape	Bead Shape	Bead Shape

NOTE: WAX L-400T can be customized according to customer requirements

## **L-500** series

Chemical NameZinc StearateAbbrevZNSTCAS No.557 - 05 - 1

## **MAIN** APPLICATION

#### **Plastic Compounding**

- Lubricating agent and mold release aid in high impact polystyrene (HIPS), expandable polystyrene (EPS), phenolic & amine resins.
- PVC stabilizer, acid scavanger & lubricating agent in polyolefin.

#### **Plastic Masterbatch**

• Dispersing agent for polyolefin filler, color masterbatch & color pigment

#### **Other Applications**

- Softener & activators for sulfur vulcanization in rubber
- Dispersing agent in PP/PET chemical fiber masterbatch
- Lubricating agent, mold release aid in composite materials, also metal processing & powder metallurgy
- · Grinding agent & flattening agent for coatings and paints

As for all of the main applications the recommended dosages are 0.5 - 2%

## TECHNICAL DATA

Parameters	L-501G	L-502P	L-506F
Melting Point (°C )	120±5	120±5	120±5
Zinc Content (%)	10.3-11.3	10.3-11.3	10.3-11.3
Free Fatty Acid (%) max.	0.8	0.8	0.8
Heating Loss, @105°C*3h (%)	≤0.5	≤0.5	≤0.5
Color, Gardner	1-2	1-2	1-2
Fineness; mesh	20	80	325

Dry process production of high purity, high transparent, dust-free zinc stearate

# L-1000 SERIES

L-1000 is a polarity amide wax. Due to its unique chemical structure, L-1000 has the properties of EBS and has a better dispersing & lubricating effect at the same time. It is an efficient lubricant and color dispersing agent.

## MAIN APPLICATION

#### Anti-GlassFibre Exposure Agent [The recommended dosage is 0.5 - 2%]

- Reinforced in PA, PBT, ABS, POM products, to prevent from outcropping.
- Strengthening PC, PPS, PPO to have a better thermal resistance.

#### Enhanced Dispersing Agent [The recommended dosage is 0.5 - 3%]

• Efficient in high concentration color masterbatch, and specific color pigments which are difficult to disperse such as Carbon Black, Phthalocyanine Blue & Phthalocyanine Green.

#### High Gloss Lubricant [The recommended dosage is 0.5 - 1%]

- Plastic compounding & masterbatch.
- Increase fluidity and surface brightness of product for reinforced flame-retardant nylon which require higher processing temperature.

#### **Inorganic Powder** [The recommended dosage is 0.5 - 2%]

• Coating agent with coupling agent & stearic acid, it enhances the overall performance and solve the issue of mold coking.

#### Other Applications [The recommended dossage is 0.5 - 2%]

- Modifying agent for road and roofing asphalt & water-proofing coating materials.
- Release agent for PE isolation film in tires.

Parameters	L-1010(G/F)	L-1020	L-1030
Color, Gardner	≤3	≤6	≤3
Acid Value (mgKOH/g)	≤15	≤8	1-4
Amine Value (mgKOH/g)	≤10	≤4	0.2-4
Melting Point (°C )	65-70	139-145	134-138
Heating Loss (%)	Max 0.5%	Max 0.5%	Max 0.5%
Fineness; mesh	80/200	20	40-60

## TECHNICAL DATA

NOTE: L-1000T can be customized according to customer requirements





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