



# TECHNICAL DATA SHEET

Product Name	<b>SCG PE WAX</b>
Product Grade	<b>LP1100P</b>

Product Type  
**Refined Polyethylene Homopolymer Wax**

## Product Description

LP1100P is a refined polyethylene homopolymer wax derived from the unique HDPE process by Thai Polyethylene Co., Ltd., a subsidiary of SCG Chemicals Co., Ltd. Under the operational excellent along with the high technology (close loop refinery), LP1100P is guaranteed its high quality for various applications.

## Typical Application

- Hot melt adhesive
- PVC compound
- Color masterbatch
- Thermoplastic road marking
- Plastic additive
- Petroleum wax blend
- Rubber
- Cable filling compound
- Candle

## Product Characteristics

- High melting and softening point
- Low viscosity
- Excellent heat resistance and thermal stability
- High hardness level
- Excellent chemical resistance
- Excellent compatibility with other waxes
- Excellent lubrication

## International Compliance

- US FDA 21 CFR 175.105
- US FDA 21 CFR 178.3720
- Directive 2002/95/EC (RoHS) and Directive 2011/65/EU (RoHS Recast)
- Regulation (EC) No.1907/2006 (REACH)
- Directive 94/62/EC (Packaging and Packaging Waste)

## Physical Properties

Property	Test Method	Typical Value	Unit
Viscosity @ 149 °C	ASTM D3236	60-100	cPs
Density	ASTM D1505	0.94	g/cm <sup>3</sup>
Penetration Hardness	ASTM D1321	2	d.mm
Dropping Point	ASTM D3954	116	°C

**Note:** the given values are typical value measured on the product. Values herein are not to be constructed as a product specification.





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### Processing Guidelines

The recommended melt temperature is 130 - 150 °C. It is recommended to use mixing machine giving good homogenization. The recommend dosage depends on the intended applications which are shown below:

#### Applications

Hot melt adhesive

PVC compound

Color masterbatch

Thermoplastic road marking

Plastic additive

Petroleum wax blend

Rubber

Cable filling compound

Candle

#### Recommendation

20 - 30% is recommended to reduce viscosity and adjust setting time of polyolefins, EVA base.

0.5 - 1.5 phr is recommended to be external lubricant for rigid PVC.

5 - 30% is recommended to improve pigment dispersion in polyolefins bases.

1 - 3% is recommended to reduce viscosity for hydrocarbon resin base.

5 - 8% is recommended to improve filler dispersion in polyolefins bases.

3 - 5% is recommended to add into a paraffin wax to increase softening point and hardness.

2 - 10% is recommended to improve processability and additives dispersion.

5 - 10 phr is recommended to improve moisture barrier property.

1 - 5% is recommended to improve gloss, hardness and prolong candle life.

#### Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products contact your SCG Chemicals technical service at the address or telephone number as specified below.

#### Product Available Form

- White powder

#### Product Packaging

- 20 kg loose bag
- 20 kg bag on pallet (pelletized wrap)

#### Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50°C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may





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lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

