Technical Data Sheet

Product Name
SCGC™ PE WAX

Product Type
Non-Refined Polyethylene Homopolymer Wax

Product Grade
LP0700F

Product Description

A polyethylene homopolymer wax, SCGC™ PE WAX LP0700F is produced using a distinctive high-density polyethylene (HDPE) technology. Our products are produced to precise quality control standards, with a narrow range of variability and consistent quality.

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 to medium viscosity
- Good heat resistance and thermal stability
- Excellent chemical resistance
- Excellent compatibility with other waxes
- Excellent lubrication

International Compliance

- 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

Properties	Test Method	Typical Value	Unit
Viscosity at 149 °C	ASTM D 3236	> 1500	cPs
Density	ASTM D 1505	0.92	g/cm³
Penetration index	ASTM D 1321	4	d.mm
Dropping Point	ASTM D 3954	113	°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	Recommendation
Hot melt adhesive	20 - 30% is recommended to reduce viscosity and adjust setting time of polyolefins, EVA base.
PVC compound	0.5 - 1.5 phr is recommended to be external lubricant for rigid PVC.
Color masterbatch	5 - 30% is recommended to improve pigment dispersion in polyolefins bases.
Thermoplastic road marking	1 - 3% is recommended to reduce viscosity for hydrocarbon resin base.
Plastic additive	5 - 8% is recommended to improve filler dispersion in polyolefins bases.
Petroleum wax blend	3 - 5% is recommended to add into a paraffin wax to increase softening point and hardness.
Rubber	2 - 10% is recommended to improve processability and additives dispersion.
Cable filling compound	5 - 10 phr is recommended to improve moisture barrier property.
Candle	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 services at the address as specified below.

Product Available Form

- White flake

Product Packaging

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

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Co., Ltd.
- 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 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.