Technical Data Sheet

Product Name
SCGC™ PE WAX

Product Type
Oxidized High Density Polyethylene

Product Grade
OX306P

Product Description

OX306P is the oxidized high density polyethylene wax having unique properties produced from oxidization process. Our high technologies and processing control, resulting in good consistency of qualities with uniform color and physical characteristics of wax so it can be used in various applications.

Typical Application

- Rigid & Soft PVC including
- transparent products

Water-based Inks, Paint and

Product Characteristics

- Good lubricant and metal release
- Fusion control
- Easy emulsification with suitable polarity
- Excellent heat resistance
- Excellent hardness

International Compliance

- RoHS Directive 2011/65/EU (Annex II)
- [amended by Directive(EU) 2015/863]

Regulation (EC) No.1907/2006 (REACH)

- US FDA 21 CFR 177.1620

Physical Properties

Properties	Test Method	Typical Value	Unit
Viscosity at 150 °C	ASTM D 3236	10,000	cPs
Density	ASTM D 1505	0.98	g/cm³
Penetration index	ASTM D 1321	< 0.5	d.mm
Dropping Point	ASTM D 3954	138	°C
Acid number	ASTM D 1386	16	mg KOH/g

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 of SCG PE WAX is 150 - 180 °C. It is recommended to use mixing machine giving good homogenization.

Applications	Recommendation
Rigid & Soft PVC including transparent products	0.1 - 1.0 phr is recommended to provide fusion control and metal release. It can be used for transparent PVC applications without negative impact on clarity.
Water-based Inks, Paint and Coating	1-5 % is recommended to provide abrasion resistance and reduce coefficient of friction (COF).

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 powder

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.

Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products;
  for more information, contact your SCG Chemicals technical services.

Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products;
  for more information, contact your SCG Chemicals technical services.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Chemicals technical services.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
  - Safety Data Sheet
  - Declaration of Compliance

Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials.