



Technical Datasheet

Product Name

SCGC™ PE WAX

Product Type

Polyethylene Homopolymer Wax

Product Grade

WD2040PX

Product Description

WD2040PX is the polyethylene homopolymer wax having unique properties produced from thermal cracking 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

- Hot melt adhesive
- PVC compound
- Color masterbatch
- Rubber

Product Characteristics

- Compatibility with polyolefins
- Excellent pigment wettability
- Excellent lubrication
- Excellent chemical resistance
- Good heat resistance and thermal stability

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)
- EN 71 Part3: 2013 European Standard on Safety of Toys

Physical Properties

Property	Test Method	Typical Value	Unit
Viscosity @ 140 °C	ASTM D3236	350 - 450	cPs
Density	ASTM D1505	0.92	g/cm ³
Penetration Hardness	ASTM D1321	2	d.mm
Softening Point	ASTM D3954	109	°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
Rubber

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

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 Packaging

- White powder

Product Characteristics

- 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 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 sloped.



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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 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 technical services.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from 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.