



TECHNICAL DATA SHEET

Product Name

SCG HDPE

Product Type

High Density Polyethylene for pipe application

Product Grade

H1000P

Product Description

SCG HDPE H1000P is a natural, bimodal, high density polyethylene resin designed as a general base resin of color compound for pipe extrusion and stripe.

Typical Application

- Drainage pipes
- Sewage pipes
- Water pipes
- Corrugated pipes
- Color stripes

Product Characteristics

- Good process ability
- Outstanding mechanical strength
- Excellent stress crack resistance

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @190 °C, 5.0 kg	0.19	g/10 min
Melt Flow Rate	ASTM D 1238 @190 °C, 21.6 kg	6.25	g/10 min
Density	ASTM D 1505	0.949	g/cm ³
Tensile Strength at Yield	ISO 527 @ Crosshead speed 100 mm/min	23	MPa
Tensile Strength at Break	ISO 527 @ Crosshead speed 100 mm/min	> 30	MPa
Elongation at Break	ISO 527 @ Crosshead speed 100 mm/min	> 600	%
Oxidative Induction Time	ISO 11357-6 @ 200 °C	> 30	min
Hardness	ASTM D 1693	64	Shore D
ESCR	ASTM D 1693 @ 10% Igepal Method B	> 10,000	Hrs, FO

Note: Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20



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Processing Guidelines

For extrusion of SCG HDPE H1000P, it is recommended to use a screw equipped with mixing elements such as pineapple or maddock in order to achieve pigment dispersion. For normal extrusion equipment, we suggest a melt temperature range in between 200 - 220 °C

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

- Pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag
- Seabulk container

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 odor generation and color 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be sloped.

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 service.



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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 service.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
 - Material Safety Datasheet
 - Statement on compliance to food contact regulations

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.