Technical Data Sheet

Product Name
SCGC™ HDPE COMPOUND

Product Type
White HDPE Compound

Product Grade
H1000PWI

Product Description

SCGC™ HDPE H1000PWI is a white HDPE compound made for external layer of above ground pipe applications. It provides high mechanical properties, good processability, and low heat absorption. In addition the good dispersion and high concentration of stabilizers contribute excellent long term UV resistance and thermal stability.

Typical Application

- Above ground pipes
- Co-extrusion of pipes

Product Characteristics

- Good processing
- Excellent thermal stability
- Good UV resistance
- Reduce heat conductivity

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate at 190 °C and 5.0 kg	ISO 1133	0.20	g/10 min
Density	ISO 1183	0.972	g/cm³
Tensile Strength at Yield (100 mm/min)	ISO 527	22	MPa
Tensile Strength at Break (100 mm/min)	ISO 527	> 30	MPa
Elongation at Break (100 mm/min)	ISO 527	> 600	%
Oxidative induction time at 210°C	ISO 11357	≥ 40	min
Flexural Modulus	ASTM D 790	1,000	MPa
Hardness (Shore D)	ASTM D 2240	62	-

Note:
- The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.
- Conversion factor for changing unit from kg/cm^2 to MPa is divided by 10.20.

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Processing Guidelines

For extrusion of SCGC™ HDPE H1000PWI, it is recommended to use a screw equipped with suitable mixing screw elements in order to achieve pigment dispersion.

For normal extrusion equipment, we suggest a melt temperature of 200 – 220 °C, and drying 80 – 90 °C for 1 - 2 hours before use.

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 pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag
- Sea bulk container

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.

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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 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.