



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	0.20	g/10 min
Melt Flow Rate	ASTM D 1238 @ 190 °C, 21.6 kg	7.40	g/10 min
Density	ASTM D 1505	0.949	g/cm ³
Tensile strength at Yield	ISO 527 @ crosshead speed 100 mm/min	24	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
Notched Izod Impact	ASTM D 256 @ 23°C	390	J/m
Notched Izod Impact	ASTM D 256 @ 0 °C	340	J/m
Notched Izod Impact	ASTM D 256 @ -20°C	620	J/m
Hardness	ASTM D 1693	64	Shore D
ESCR	ASTM D 1693 @ 10% Igepal Method B	>10,000	Hrs, F0

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

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Processing

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 deg 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 slopped.

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