



TECHNICAL DATA SHEET

Product Name

SCG HDPE

Product Type

High Density Polyethylene for Bi-component fiber

Product Grade

H202S

Product Description

HDPE resin fiber grade is specially designed for Bi-component fiber product by using extrusion process. Typical application is outer or sheath layer of Bi-component fiber for disposable hygiene products such as baby diaper, baby wipe and medical mask. It also can be used for other staple fibers nonwoven for hygiene products' demanding which is required softness.

Typical Application

- Bi-component fiber
- Bi-component spunbond
- Staple fiber
- Non-woven fabric

Product Characteristics

- Softness
- Good spinability
- Anti-gas fading stabilizer package
- Good OIT property
- No residue and non-toxic to human skin

International Compliance

- U.S. FDA
(Complies with U.S FDA 21 CFR 177.1520)

Physical Properties

| Property | Test Method | Typical Value | Unit |
|---------------------------|-------------------------------|---------------|--------------------|
| Melt Flow Rate | ASTM D 1238 @ 190 °C, 2.16 kg | 18.0 | g/10 min |
| Density | ASTM D 1505 | 0.962 | g/cm ³ |
| Melting Point | ASTM D 2117 | 129 | °C |
| Tensile Strength at Yield | ASTM D 638 | 280 | kg/cm ² |
| Tensile Strength at Break | ASTM D 638 | 140 | kg/cm ² |
| Elongation at Break | ASTM D 638 | 300 | % |

Note:

- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20
- There results above are under SCG's condition and method from specific sample, should be not used for representative to lot product qualities

Processing Guidelines

Recommended processing conditions: Melting temperature: 230 – 270 °C

However, these conditions are only guideline for actual processing conditions should be adjusted case by case because it depends on machine type, screw configuration, product design and environment.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products contact your SCG Chemicals technical service engineer at the address or telephone number as specified below.

SCG Plastics Co., Ltd. / SCG Performance Chemicals Co., Ltd.





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Product Available Form

- Pellet

Product Packaging

- 25 kg loose bag
- 750 kg big bag

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene 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 slopped.

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