



TECHNICAL DATA SHEET

Product Type

High Density Polyethylene for Bi-component fiber

Product Name

SCG HDPE

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.



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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.

Safety

- The product is not classified as a hazardous material.
- Please see our Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.

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 Safety Data Sheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals 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 SCG Plastics/SCG Performance Chemicals technical service.
- 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
 - Statement on compliance to food contact regulations



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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.