



TECHNICAL DATA SHEET

Product Name

SCG HDPE

Product Type

High Density Polyethylene for Caps and Closure

Product Grade

H568J

Product Description

SCG HDPE H568J is a high density polyethylene resin with excellent environmental stress cracking resistance and good mechanical properties balance. It is particularly designed for light-weight carbonated soft drink caps. This resin have excellent processability for both injection molding and continuous compression molding

Typical Application

- Beverage caps and closures
- Carbonated soft drink
- Sparkling water

Product Characteristics

- Excellent processability
- Excellent environmental stress cracking resistance
- Good mechanical property
- With slip agent for good opening torque
- Good organoleptic property

International Compliance

- US FDA 21 CFR 177.1520
- Commission Regulation (EU) no. 10/2011

Note: Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact package

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	0.8	g/10 min
Density	ASTM D 1505	0.956	g/cm ³
Tensile Modulus	ISO 527 (1B, Speed 1 mm/min)	1,100	MPa
Tensile Strength at Yield	ISO 527 (1B, Speed 50 mm/min)	25	MPa
Tensile Strength at Break	ISO 527 (1B, Speed 50 mm/min)	14	MPa
Elongation at Yield	ISO 527 (1B, Speed 50 mm/min)	7	%
Notched Izod Impact Strength	ISO 180	49	J/m
Hardness (Shore D)	ASTM D 2240	64	-
ESCR	ASTM D1693 @ 50°C (Condition B, Compression Molded, 10% Igepal)	> 600	Hrs, F ₅₀
Melting Point	ASTM D 2117	130	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	73	°C
Vicat Softening Point	ASTM D 1525	123	°C

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Note: the given values are typical value measured on the product. Values herein are not to be constructed as a product specification.

Processing Guidelines

The actual processing condition depends on each machine type, product size and mold design. Generally, melt temperature should be 190-230°C for injection molding and 160-190°C for continuous compression molding. The exceed melt temperature than 250°C might affect organoleptic property.

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

- Block 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 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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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 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 Material Safety Datasheet 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

- 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.
 - 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.
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