



TECHNICAL DATA SHEET

Product Name

SCG HDPE

Product Type

High Density Polyethylene for Blow Molding

Product Grade

H5840B

Product Description

SCG HDPE H5840B is a high density polyethylene resin suitable for producing chemical bottles by using extrusion blow molding machine

Typical Application

- Chemical bottles Chemical drums (Containing volume up to 30 liters)
- Personal and homecare bottles
- Lube oil bottles
- Brake fluid bottles

Product Characteristics

- Excellent Environmental Stress crack
- Resistance (ESCR)
- Good surface appearance
- Good processibility
- Good printability

International Compliance

- U.S FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Packaging and Packaging waste Directive 94/62/EC/CONEG

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	0.4	g/10 min
HLMI	ASTM D 1238 @ 190 °C, 21.6 kg	40	g/10 min
Density	ASTM D 1505	0.955	g/cm ³
Melting Point	ASTM D 2117	132	°C
Vicat Softening Point	ASTM D 1525	128	°C
Brittleness Temperature	ASTM D 746	< - 60	°C
Tensile Strength at Yield	ASTM D 638	280	kg/cm ²
Tensile Strength at Break	ASTM D 638	350	kg/cm ²
Elongation at Break	ASTM D 638	1000	%
Flexural Modulus	ASTM D 790	12000	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23 °C	98	J/m
ESCR	ASTM D 1693 @ 50 °C (Condition B, Compression Molded, 25% Igepal)	300	Hrs, F50

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

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





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Processing Guidelines

Recommended processing conditions:

The actual extrusion condition depends on type of using machine, size and wall thickness of product required. Generally, melt temperature should be 160-180 °C. 5-8 bar of blowing pressure is recommended. In some cases, enlargement of die and pin diameter (15-30%) may be suggested for increasing parison diameter.

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.

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
- 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 sloped.

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