



Technical Data Sheet

Product Name
SCGC™ HDPE

Product Type
High Density Polyethylene

Product Grade
H5840B

Product Description

SCGC HDPE H5840B is a high density

Typical Application

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Product Characteristics

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International Compliance

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Physical Properties

	q	0.4	g/10 min
	190 Φ, 21.6 kg	40	g/10 min
Density	ASTM 1505	0.955	g/cm ³
Melting Point	ASTM D 2117	132	Φ
Vicat Softening Point	D 1525	128	Φ
Brittleness Temperature	ASTM D 746	< -60	Φ
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	13500	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23 °C	98	J/m
ESCR	ASTM 1693 @ 50 °C (Method B, Compression Molded, 25% Igepal)	300	Hrs, F ₅₀

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



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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 services at the address as specified below.

Product Available Form

- ‡ Block pellet

Product Packaging

- ‡ 25 kg loose bag
- ‡ 25 kg stretch wrap palletized
- ‡ 750 kg big bag
- ‡ Sea bulk 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 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 sealed until ready 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.

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 Chemicals technical services.



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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; more information, contact your SCG Chemicals technical services.

Related Documents

- ‡ The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Chemicals technical services
- ‡ 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.
 - Declaration of Compliance.

Disclaimer

- x The applications specified herein is reference only
- x 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
- x 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.
- x We make no warranties which extend beyond the description herein Nothing herein shall constitute any implied warranty of merchantability or fitness a particular purpose
- x No liability can be accepted in respect of the use of the product in conjunction with other materials The information contained herein relates exclusively the product when it is not used in conjunction with any third party's materials