/	SCG CHEMICALS		Technical Datasheet	High Density Polyethylene for Blow Molding			
			EL-Len	ne <sup>™</sup> H5840B			
Product Description							

EL-Lene H5840B is a high density polyethylene resin suitable for producing chemical bottles by using extrusion blow molding mach

# **Typical Application**

- Product Characteristics
- Chemical bottles, Chemical drums (Containing volume up to 30 liter)
- Personal and homecare bottles
- Lube oil bottles
- Brake fluid bottles

Good processibility

PLASTIC TAN PHU SAI GON Good printability

Good surface appearance

Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)

■ Excellent Environmental Stress Cracking Resistance (ESCR)

## **Physical Properties**

Property	Test Method	Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	0.40	g/10 min
HLMI	ASTM D 1238 @ 190°C, 21.6 kg	40	g/10 min
Density	ASTM D 1505		g/cm <sup>3</sup>
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	280	kg/cm <sup>2</sup>
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	350	kg/cm <sup>2</sup>
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	1000	%
Flexural Modulus	ASTM D 790	12000	kg/cm <sup>2</sup>
Notched Izod Impact	ASTM D 256 @ 23°C	10	kg.cm/cm
Hardness	ASTM D 2240	66	Shore D
ESCR	ASTM D 1693 @ 50°C	300	hrs, F <sub>50</sub>
	(Condition B, Compression Molded, 25% Igepal)		
Melting Point	ASTM D 2117	132	°C
Vicat Softening Point	ASTM D 1525	128	°C
Brittleness Temperature	ASTM D 746	< - 60	°C

Note : Conversion factor for changing unit from kg/cm<sup>2</sup> to MPa is divided by 10.20

## **Processing Techniques**

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 at the address or telephone number as specified below.

Product Available Form	Product Packaging		
Pellet	<ul><li>25 kg loose bag</li><li>Big bag with specified weight</li></ul>		
SCG Plastics Company Limited / SCG	Performance Chemicals Company Limited		

1 Siam Cement Road, Bangsue, Bangkok, 10800 Thailand.

Tel. +66 2586 4874 Fax +66 2586 5522

www.chemicals.scg.co.th



#### 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 below50°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 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 reclycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

- 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.

#### **Related Documents**

- The lastest version of this document will be available at our website, www.chemicals.scg.co.th, 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 Data Sheet
- Statement on compliance to food contact regulations

## Disclaimer

- The product can be used only for the application as specified hereabove.

- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

- We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.

- It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

- No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.



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