

**Product Description**

EL-Lene 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 liter)
- Personal and homecare bottles
- Lube oil bottles
- Brake fluid bottles

Product Characteristics

- Excellent Environmental Stress Cracking Resistance (ESCR)
- Good surface appearance
- Good processibility
- Good printability
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)

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	0.958	g/cm ³
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	280	kg/cm ²
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	350	kg/cm ²
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	1000	%
Flexural Modulus	ASTM D 790	12000	kg/cm ²
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 (Condition B, Compression Molded, 25% Igepal)	300	hrs, F ₅₀
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/cm² 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 Available Form

- Pellet

Product Handling

- 25 kg loose bag
- Big bag with specified weight

Product Technical Assistance

For technical assistance or further information on this product or any other EL-Lene products, please contact EL-Lene representatives.

The information presented in this data sheet is offered in good faith. SCG Plastics Co., Ltd. accepts no responsibility for the accuracy or interpretation of the information presented. The users have to establish for yourself the most suitable formulation, production method and control tests, to ensure the uniformity and quality of your product in compliance with all related laws.