

EL-Lene™ H5840B

High Density Polyethylene
SCG Chemicals Co., Ltd.

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Technical Data

Product Description

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

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Asia Pacific • North America
Features	• Excellent Printability • Good Processability • Food Contact Acceptable • High ESCR (Stress Crack Resist.) • Pleasing Surface Appearance
Uses	• Agricultural Chemicals Bottles • Drums • Bottles • Fuel Additive Bottles • Personal Care
Agency Ratings	• FDA 21 CFR 177.1520
Forms	• Pellets
Processing Method	• Extrusion Blow Molding

Physical	Nominal Value Unit	Test Method
Density	0.958 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg	0.40 g/10 min	
190°C/21.6 kg	40 g/10 min	
Environmental Stress-Cracking Resistance		ASTM D1693B
50°C, 25% Igepal, Compression Molded, F50	300 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³		ASTM D638
Yield	27.5 MPa	
Break	34.3 MPa	
Tensile Elongation ³ (Break)	1000 %	ASTM D638
Flexural Modulus	1180 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	98 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	66	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -60.0 °C	ASTM D746
Vicat Softening Temperature	128 °C	ASTM D1525
Melting Temperature	132 °C	ASTM D2117

Extrusion	Nominal Value Unit
Melt Temperature	160 to 180 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min



Where to Buy

Supplier

SCG Chemicals Co., Ltd.
Bangkok, Thailand
Telephone: 66-2586-4184
Web: <http://www.scgchemicals.co.th/>

Distributor

Calsak Polymers
Telephone: 800-743-2595
Web: <http://www.calsakpolymers.com/>
Availability: North America

