

# EL-Lene™ H6140B

High Density Polyethylene  
SCG Chemicals Co., Ltd.

Message:

EL-Lene H6140B is a high density polyethylene resin suitable for producing cosmetic bottles by using extrusion blow molding machine.

General Information			
Features	Excellent Printability		
	Food Contact Acceptable		
	Good Compressive Strength		
	Good Impact Resistance		
	Good Processability		
	Pleasing Surface Appearance		
Uses	Bottles		
	Cosmetics		
	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	0.962	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Compression Molded, F50)	100	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	29.4	MPa	
Break	34.3	MPa	
Tensile Elongation <sup>2</sup> (Break)	1100	%	ASTM D638
Flexural Modulus	1270	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	98	J/m	ASTM D256
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	
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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#### Recommended distributors for this material

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