

EL-Lene™ H6430BM

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H6430BM is a high density polyethylene resin suitable for producing beverage bottles by using Extrusion blow molding machine.

General Information			
Features	Excellent Printability		
	Food Contact Acceptable		
	Good Processability		
	Low to No Odor		
	Ultra High Stiffness		
Uses	Bottles		
	Fruit Juice Bottles		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.966	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.40	g/10 min	
190°C/21.6 kg	30	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Compression Molded, F50)	24.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	29.4	MPa	
Break	36.3	MPa	
Tensile Elongation ² (Break)	1200	%	ASTM D638
Flexural Modulus	1470	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	250	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	180 to 200	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	

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