EL-Lene™ H5840B

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

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

General Information			
Features	Excellent Printability Food Contact Acceptable Good Processability High ESCR (Stress Crack Resist.) Pleasing Surface Appearance		
Uses	Agricultural Chemicals Bottles Bottles Drums 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 (50°C, 25% Igepal, Compression Molded, F50)	300	hr	ASTM D1693B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield	27.5	MPa	
Break	34.3	MPa	
Tensile Elongation [2] (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
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		

Recommended distributors for this material

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