

# EL-Lene™ H655JA

High Density Polyethylene

SCG Chemicals Co., Ltd.

## Message:

EL-Lene H655JA is a high density polyethylene resin with good processing performance and excellent mechanical properties. It is particularly designed for injection molding and compression molding of screw cap and closure.

General Information			
Features	Durable		
	Food Contact Acceptable		
	Good Organoleptic Properties		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
Uses	Caps		
	Closures		
Agency Ratings	EU 2002/72/EC Article 2		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Compression Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Molding Shrinkage			
Flow : 2.00 mm	3.6	%	ASTM D955
Across Flow : 2.00 mm	2.6	%	Internal Method
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50)	400	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	27.5	MPa	
Break	34.3	MPa	

Tensile Elongation <sup>2</sup> (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	131	°C	ASTM D2117
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 240	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 200	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

