EL-Lene™ H255JA

High Density Polyethylene SCG Chemicals Co., Ltd.

Message:

General Information

EL-Lene H255JA is a high density polyethylene resin with narrow molecular weight distribution, excellent processing performance, organoleptic property. It is particularly designed for injection molding and extrusion compression molding of screw cap and closure.

Features	Food Contact Acceptable			
	Good Organoleptic Properties			
	Good Processability			
	Narrow Molecular Weight Distribution			
Uses	Caps			
	Closures			
Agency Ratings	EEC 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/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR) (190°C/2.16	44	40 .	ACTNA D1220	
kg)	11	g/10 min	ASTM D1238	
Molding Shrinkage			TPE	
Flow : 2.00 mm	2.1	0/		
Across Flow: 2.00 mm	2.1	%		
	2.0	%		
Environmental Stress-Cracking Resistance				
			ASTM D1693B	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded,	2.0	%	ASTM D1693B Test Method	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50)	5.00	% hr		
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50) Hardness	5.00 Nominal Value	% hr	Test Method	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50) Hardness Durometer Hardness (Shore D)	5.00 Nominal Value 65	% hr Unit	Test Method ASTM D2240	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50) Hardness Durometer Hardness (Shore D) Mechanical	5.00 Nominal Value 65	% hr Unit	Test Method ASTM D2240 Test Method	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50) Hardness Durometer Hardness (Shore D) Mechanical Tensile Strength ¹	5.00 Nominal Value 65 Nominal Value	% hr Unit Unit	Test Method ASTM D2240 Test Method	

Flexural Modulus	1130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed)	72.0	°C	ASTM D648
Brittleness Temperature	-60.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Melting Temperature	130	°C	ASTM D2117
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 240	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 180	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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