

EL-Lene™ H355JA

High Density Polyethylene
SCG Chemicals Co., Ltd.

Message:

EL-Lene H355JA is a high density polyethylene resin with narrow molecular weight distribution, good processing performance, organoleptic property. It is particularly designed for injection molding and extrusion compression molding of screw cap and closure.

General Information			
Features	Rigidity, high		
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	Recyclable materials		
	Workability, good		
	Good sensory characteristics		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Shield		
	Shell		
Agency Ratings	FDA 21 CFR 177.1520		
	European 2002/72/EC		
Forms	Particle		
Processing Method	Extrusion		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.964	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage			TPE
Flow: 2.00mm	2.0	%	TPE
Transverse flow: 2.00mm	2.0	%	TPE
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50)	6.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638

Yield	29.4	MPa	ASTM D638
Fracture	16.7	MPa	ASTM D638
Tensile Elongation ² (Break)	1200	%	ASTM D638
Flexural Modulus	1320	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	86.0	°C	ASTM D648
Brittleness Temperature	-60.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
Peak Melting Temperature	131	°C	ASTM D2117
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 240	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 180	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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