

EL-Lene™ H455JA

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H455JA 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	Food Contact Acceptable		
	Good Organoleptic Properties		
	Good Processability		
	High Impact Resistance		
	Narrow Molecular Weight Distribution		
	Recyclable Material		
Uses	Caps		
	Closures		
Agency Ratings	EU 2002/72/EC		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Compression Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage			TPE
Flow : 2.00 mm	2.1	%	
Across Flow : 2.00 mm	2.1	%	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50)	7.00	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	250	MPa	
Tensile Elongation ² (Break)	1300	%	ASTM D638
Flexural Modulus	1230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	84.0	°C	ASTM D648
Brittleness Temperature	-60.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Peak Melting Temperature	132	°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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