EL-Lene™ H255JA

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

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.

General Information	
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 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage			TPE
Flow : 2.00 mm	2.1	%	
Across Flow : 2.00 mm	2.0	%	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50)	5.00	hr	ASTM D1693B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield	25.5	MPa	
Break	160	MPa	
Tensile Elongation [2] (Break)	1100	%	ASTM D638

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		

Recommended distributors for this material

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