

**Product Description**

EL-Lene H555JA is a high density polyethylene resin with good environmental stress cracking resistance, good processing performance, organoleptic property. It is particularly designed for injection molding and extrusion compression molding of screw cap and closure.

Typical Application

Cap and closure for beverage bottle

- Stilled and mineral water
- Juice

Product Characteristics

- Good environmental stress cracking resistance
- Food contact applicable (complies with U.S FDA 21 CFR 177.1520, Standard European Economic Community 2002/72/EC Article 2)
- Organoleptic certified (TPE method)

Physical Properties

Property	Test Method	Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	1.8	g/10 min
Density	ASTM D 1505	0.954	g/cm ³
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	260	kg/cm ²
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	350	kg/cm ²
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	1200	%
Flexural Modulus	ASTM D 790	11,000	kg/cm ²
Flexural Strength	ASTM D 790	330	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23 °C	8	kg.cm/cm
Hardness	ASTM D 2240	64	Shore D
ESCR	ASTM D 1693 @ 50 °C (Condition B, Compression Molded, 10% Igepal)	20	hrs, F ₅₀
Melting Point	ASTM D 2117	131	°C
Vicat Softening Point	ASTM D 1525	130	°C
Brittleness Temperature	ASTM D 746	< - 60	°C

Note : Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20

Processing Techniques

The actual processing condition depends on each machine type, product size, mold design. Generally, melt temperature should be 200-240 deg.C for injection molding and 150-180 deg.C for extrusion compression molding. The exceed melt temperature than 250 deg.C might effect organoleptic property.

Product Available Form

- Pellet

Product Handling

- 25 kg loose bag

Product Technical Assistance

For technical assistance or futher information on this product or any other EL-Lene products, please contact EL-Lene representatives.

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