

Product Description

EL-Lene H6007JW is a high density polyethylene resin with good processibility and high level of UV resistance suitable for industrial product produced from injection molding process.

Typical Application

- Crate for beverage bottle
- Pallet
- Industrial parts for outdoor uses

Product Characteristics

- Excellent UV resistance and good processibility
- Good stiffness and impact resistance
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)

Physical Properties

Property	Test Method	Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	7.5	g/10 min
Density	ASTM D 1505	0.964	g/cm ³
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	310	kg/cm ²
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	220	kg/cm ²
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	>650	%
Flexural Modulus	ASTM D 790	13500	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23°C	3.5	kg.cm/cm
Hardness	ASTM D 2240	68	Shore D
ESCR	ASTM D 1693 @ 50°C (Condition B, Compression Molded, 25% Igepal)	4	hrs, F ₅₀
Melting Point	ASTM D 2117	133	°C
Vicat Softening Point	ASTM D 1525	127	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	75	°C
Brittleness Temperature	ASTM D 746	- 60	°C
% Shrinkage (2mmt) MD	TPE Method	1.55	%
TD	TPE Method	0.96	%

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

Processing Techniques

The actual processing conditions depend on each machine type, product size, mold design and environment.

Recommended processing conditions:

Melt temperature: 200-250°C	Mold temperature: 20-60°C	Injection speed: Fast	Screw speed 40-70 rpm
Pressure: Injection 30-70%,	Packing and Holding 30-50%,	Back 10%	of Max. Pressure

Product Available Form

- Pellet

Product Handling

- 25 kg loose bag
- Big Bag with specified weight

Product Technical Assistance

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

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