

## Product Description

EL-LENE L2009F is a butene LLDPE resin with Slip and Antiblocking agent.

## Typical Applications

- Heavy duty bag
- Industrial bag
- Agricultural film

## Product Characteristics

- High productivity
- Good optical properties
- Can be blended with HDPE, LDPE
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)
- Slip content 1000 ppm
- Antiblocking content 700 ppm

## Physical properties

Property	Test Method	Value	Unit
<b>Resin Properties</b>			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	1.00	g/10 min
Density	ASTM D 1505	0.919	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	122	°C
Vicat Softening Point	ASTM D 1525	102	°C
Brittleness Temperature	ASTM D 746	< - 70	°C
ESCR	ASTM D 1693 @ 50 °C (Condition B, Compression Molded, 25% Igepal)	> 1000	hrs, F <sub>50</sub>
<b>Film Properties</b>			
Tensile Strength at Yield	ASTM D 882	MD: 120*, TD: 140*	kg/cm <sup>2</sup>
Tensile Strength at Break	ASTM D 882	MD: 380*, TD: 350*	kg/cm <sup>2</sup>
Tensile Modulus, 2% Secant	ASTM D 882	MD: 2650*, TD: 2770*	kg/cm <sup>2</sup>
Elongation at Break	ASTM D 882	MD: 1000*, TD: 1200*	%
Elmendorf Tear Strength	ASTM D 1922	MD: 145*, TD: 370*	g
Dart Impact Strength	ASTM D 1709	130*	g
Haze	ASTM D 1003	16*	%
Gloss	ASTM D 2457	52*	%

(\*) Properties obtained from film produced on a pilot line at TPE, 38 micron, BUR 2:1, MD = Machine Direction, TD = Transverse Direction

Note : Conversion factor for changing unit from kg/cm<sup>2</sup> to MPa is divided by 10.2

## Processing Techniques

The actual extrusion condition depends on type of using machine, size and film thickness of product required. Generally, melt temperature should be 180-200 °C and BUR 2-3 times of die diameter is recommended.

## Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products contact your SCG Chemicals technical service at the address or telephone number as specified below.

## Product Available Form

- Pellet

## Product Packaging

- 25 kg loose bag
- Big bag with specified weight

SCG Plastics Company Limited / SCG Performance Chemicals Company Limited





Technical Datasheet

Linear Low Density Polyethylene for Blown Film

EL-Lene™

**L2009F**

### Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50°C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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