

Product Description

EL-LENE L1810F 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 1600 ppm
- Antiblocking content 1900 ppm

Physical properties

Property	Test Method	Value	Unit
Resin Properties			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	1.00	g/10 min
Density	ASTM D 1505	0.919	g/cm ³
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 ₅₀
Film Properties			
Tensile Strength at Yield	ASTM D 882	MD: 140*, TD: 100*	kg/cm ²
Tensile Strength at Break	ASTM D 882	MD: 470*, TD: 170*	kg/cm ²
Tensile Modulus, 2% Secant	ASTM D 882	MD: 2650*, TD: 2770*	kg/cm ²
Elongation at Break	ASTM D 882	MD: 1050*, TD: 810*	%
Elmendorf Tear Strength	ASTM D 1922	MD: 145*, TD: 370*	g
Dart Impact Strength	ASTM D 1709	130*	g
Haze	ASTM D 1003	18*	%
Gloss	ASTM D 2457	51*	%

(*) 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/cm² 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 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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