

Linear Low Density Polyethylene

LF08262

EVALENE[®] LF08262 is a barefoot Linear Low Density Polyethylene grade with hexene (C6) as comonomer for blown film applications.



Stiff, strong and tough films are made using **EVALENE[®] LF08262**, the most versatile **EVALENE[®]** grade. **EVALENE[®] LF08262** has outstanding mechanical properties comparable with premium octene-based (C8) LLDPE, which makes it particularly suitable for very demanding heavy duty applications. **EVALENE[®] LF08262** can replace butene (C4) LLDPE with downgauging possibilities, and delivers maximum performance benefits as a core layer material in coextrusion.

FEATURES

- Outstanding overall strength
- Superior stiffness
- Excellent mechanical properties
- Meets FDA Philippines food-contact requirements
- Halal certified

TYPICAL APPLICATIONS

- Heavy duty sacks
- Agricultural films
- High-performance flexible and industrial packaging requiring superior puncture and tear resistance

Product Properties

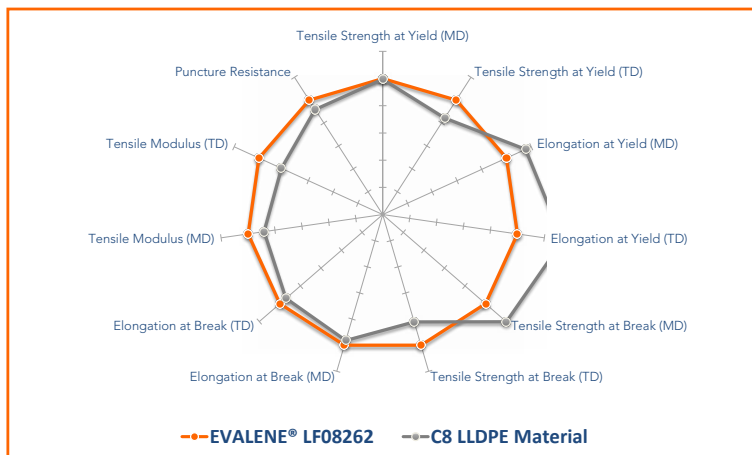
Property	Test Condition	Test Method	Typical Value	Unit
Melt Index	190°C/2.16 kg	ASTM D1238	0.8	g/10 min
Density	23°C	ASTM D1505	0.926	g/cm ³
Tensile Strength at Yield*	500 mm/min	ASTM D882	14 / 16	MPa
Elongation at Yield*	500 mm/min	ASTM D882	16 / 11	%
Tensile Strength at Break*	500 mm/min	ASTM D882	13 / 15	MPa
Elongation at Break*	500 mm/min	ASTM D882	485 / 474	%
Tensile Modulus*	1% Secant, 25 mm/min	ASTM D882	327 / 262	MPa
Elmendorf Tear Strength*		ASTM D1922	384 / 480	g
Dart Impact Strength*		ASTM D1709	104	g
% Haze*		ASTM D1003	15	%
Gloss*	45° angle of incidence	ASTM D2457	72	%

*Properties tested on 25µ films made using a Killion extruder with 38mm screw, 3.5" die, 1.0mm die gap, at 2.25:1 BUR.
Tensile and tear properties are in machine and transverse directions (MD / TD).

Typical Processing Conditions

Extrusion Temperatures	170 - 210°C
Blow Up Ratio	2 - 4
Die Gap	1 - 3 mm

Figure 1. Mechanical property performance of EVALENE® LF08262 vs. C8 LLDPE material



EVALENE® LF08262 brings overall superior value to the film producer. It shows impressive mechanical performance in this comparison with an octene-based (C8) LLDPE grade. Heavy duty bags made of **EVALENE® LF08262** are stiffer (at least 13% higher tensile modulus) and exhibit lower elongation. Thus, **EVALENE® LF08262**-made heavy duty bags have better dimensional stability than bags made with the C8 LLDPE grade. Likewise, its outstanding puncture resistance allows **EVALENE® LF08262** to maintain package integrity.

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