

LLDPE**LLDPE 218WJ****LINEAR LOW DENSITY POLYETHYLENE (LLDPE)**

A butene-comonomer linear low-density polyethylene (LLDPE) blown-film grade formulated without TNPP-based stabilizers, suited to general-purpose packaging film. The resin processes easily on conventional blown-film lines, yielding films with good tensile properties, impact strength, and optical clarity. The grade is compounded with slip and antiblock additives for reliable bag-opening and web handling.

Typical Application	Product Characteristics	International Compliance
• Lamination film • Thin liners • Shopping bags • Carrier bags • Garbage bags • Coextruded films • General-purpose consumer packaging	• Contains slip and antiblock additives for consistent film handling • Formulated without TNPP-based stabilizers • Good balance of tensile strength, impact resistance, and optical clarity	• Suitable for food-contact applications; detailed compliance information and certificate available on request

Film Properties

Properties	Test Method	Typical Value	Unit
Tensile Stress at Break (MD)	ASTM D882	35	MPa
Tensile Stress at Break (TD)	ASTM D882	29	MPa
Strain at Break (MD)	ASTM D882	700	%
Strain at Break (TD)	ASTM D882	750	%
Stress at Yield (MD)	ASTM D882	12	MPa
Stress at Yield (TD)	ASTM D882	10	MPa
1% Secant Modulus (MD)	ASTM D882	220	MPa
1% Secant Modulus (TD)	ASTM D882	260	MPa
Puncture Resistance	Internal method	63	J/m
Elmendorf Tear Strength (MD)	ASTM D1922	130	g
Elmendorf Tear Strength (TD)	ASTM D1922	320	g

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (190°C/2.16kg)	ASTM D1238	2	g/10 min
Density	ASTM D1505	0.918	g/cm ³
Dart Impact Strength	ASTM D1709	85	g/μm
Haze	ASTM D1003	13	%
Gloss (60°)	ASTM D2457	80	-
Vicat Softening Point	ASTM D1525	98	°C

Processing Guidelines

Typical processing conditions: melt temperature 185-205°C; blow-up ratio 2.0-3.0.

1. Mechanical properties were measured on 30 μm film produced at a blow-up ratio of 2.5 using 100% resin.
2. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.