

SABIC® LLDPE 218WJA

LINEAR LOW DENSITY POLYETHYLENE
REGION AMERICAS

DESCRIPTION

SABIC® LLDPE 218WJA is a butene Linear Low Density Polyethylene TNPP free grade suitable for general-purpose packaging. It is easy to process giving good tensile properties, impact strength and optical properties. 218WJA contains slip and antiblock additives.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL APPLICATIONS

Lamination film, thin liners, shopping bags, carrier bags, garbage bags, coextruded films, consumer packaging and other general-purpose applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2.0	g/10 min	ASTM D1238
Density	918	kg/m ³	ASTM D1505
OPTICAL PROPERTIES ⁽¹⁾			
Haze	15	%	ASTM D1003
Gloss (45°)	65	%	ASTM D2457
FILM PROPERTIES			
Tensile test film ⁽¹⁾			
Stress at break, MD	40	MPa	ASTM D882
Stress at break, TD	31	MPa	ASTM D882
Strain at break, MD	600	%	ASTM D882
Strain at break, TD	810	%	ASTM D882
Stress at yield, MD	10	MPa	ASTM D882
Stress at yield, TD	11	MPa	ASTM D882
Dart Impact Strength	70	g	ASTM D1709
1% secant modulus, MD	195	MPa	ASTM D882
1% secant modulus, TD	210	MPa	ASTM D882
Elmendorf Tear Strength MD	110	g	ASTM D1922
Elmendorf Tear Strength TD	360	g	ASTM D1922
Puncture Force	21	N	SABIC method
Puncture Energy	0.8	J	SABIC method
THERMAL PROPERTIES			
DSC test			
Melting point	121	°C	SABIC method

(1) Mechanical properties have been measured by producing 30 µ film with 2.5 BUR using 100% 218NI.