

# SABIC® LLDPE 218NJ

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

218NJA 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. 218NJ contains no slip and no antiblock additives.

## 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
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16 kg	2	g/10 min	ASTM D1238
<b>Density</b>	918	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Dart Impact Strength</b>	85	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
<b>Haze</b>	13	%	ASTM D1003
<b>Gloss</b>			
at 45°	80	-	ASTM D2457
<b>FILM PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Properties</b>			
stress at break, MD	35	MPa	ASTM D882
stress at break, TD	29	MPa	ASTM D882
strain at break, MD	700	%	ASTM D882
strain at break, TD	750	%	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	220	MPa	ASTM D882
1% secant modulus, TD	260	MPa	ASTM D882
<b>Elmendorf Tear Strength</b>			
MD	130	g	ASTM D1922
TD	320	g	ASTM D1922
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	98	°C	ASTM D1525

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

## PROCESSING CONDITIONS

Typical processing conditions for 218NJ are:  
Melt temperature: 185 - 205°C, Blow up ratio: 2.0 - 3.0