



# SABIC® LLDPE 121WJ

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

121WJ is a high quality Linear Low Density Polyethylene TNPP free grade for blown film. It has excellent processability and films produced from this resin have good clarity, excellent puncture resistance, high tensile strength and good sealing characteristics.

121WJ contains slip and antiblock additive.

## TYPICAL APPLICATIONS

Ice bags, frozen food bags, produce bags, bread bags, carrier bags, garment bags, laminated films for food packaging.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
190°C and 2.16 kg	1	g/10 min	ASTM D1238
<b>Density</b>	918	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
<b>Slip agent</b>	☑	-	-
<b>Anti static agent</b>	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Dart Impact Strength</b>	100	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
<b>Haze</b> <sup>(1)</sup>	9	%	ASTM D1003
<b>Gloss</b>			
at 60°	90	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile Properties</b>			
stress at break, MD	36	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	880	%	ASTM D882
strain at break, TD	830	%	ASTM D882
stress at yield, MD	9	MPa	ASTM D882
stress at yield, TD	8	MPa	ASTM D882
1% secant modulus, MD	200	MPa	ASTM D882
1% secant modulus, TD	180	MPa	ASTM D882
<b>Puncture resistance</b>	60	J/mm	SABIC method
<b>Elmendorf Tear Strength</b>			
MD	110	g	ASTM D1922
TD	450	g	ASTM D1922
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	100	°C	ASTM D1525

(1) Properties have been measured by producing 30 μm film with 2.5 BUR using 100% 121WJ.