

# SABIC® LLDPE 222WJ

## LINEAR LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LLDPE 222WJ is a linear low density polyethylene resin designed for blown film applications. This resin has a relatively high MFR that makes it an easy processing material. Films made from this resin exhibits high transparency, good toughness and good extrusion characteristics. LLDPE 222WJ contains high levels of both slip agent and Anti-Block.

### TYPICAL APPLICATIONS

- General purpose film
- Clothes packaging
- Agriculture film

### 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	2.2	g/10 min	ASTM D1238
<b>Density</b>			
Density	0.921	g/cm <sup>3</sup>	ASTM D792
<b>OPTICAL PROPERTIES <sup>(1)</sup></b>			
<b>Gloss</b>			
Gloss (45°)	55	-	ASTM D2457
<b>Haze <sup>(1)</sup></b>	15	%	ASTM D1003
<b>FILM PROPERTIES <sup>(1)</sup></b>			
<b>Dart Impact Strength</b>			
Dart Drop Impact	90	g	ASTM D1709
<b>Elmendorf Tear Strength</b>			
Tear Strength, MD	125	g	ASTM D1922
Tear Strength, TD	350	g	ASTM D1922
<b>Tensile test film</b>			
1% secant modulus, MD	205	MPa	ASTM D882
1% secant modulus, TD	255	MPa	ASTM D882
Stress @ Break, MD	35	MPa	ASTM D882
Stress @ Break, TD	30	MPa	ASTM D882
Strain @ Break, MD	765	%	ASTM D882
Strain @ Break, TD	925	%	ASTM D882
<b>THERMAL PROPERTIES</b>			
<b>Melting Point</b>	122	°C	SABIC method

(1) Blown film processing conditions: Extruder Ø55 mm, Die Ø125 mm, Die lip gap 2.0 mm, Temperature 170°C, Output rate 30 kg/h, BUR 2.0, Film thickness 30 µm.