

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
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2.2	g/10 min	ASTM D1238
Density			
Density	0.921	g/cm ³	ASTM D792
OPTICAL PROPERTIES ⁽¹⁾			
Gloss			
Gloss (45°)	55	-	ASTM D2457
Haze ⁽¹⁾	15	%	ASTM D1003
FILM PROPERTIES ⁽¹⁾			
Dart Impact Strength			
Dart Drop Impact	90	g	ASTM D1709
Elmendorf Tear Strength			
Tear Strength, MD	125	g	ASTM D1922
Tear Strength, TD	350	g	ASTM D1922
Tensile test film			
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
THERMAL PROPERTIES			
Melting Point	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.