

SABIC® LLDPE 119NJ

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 119NJ is a butene linear low density polyethylene resin produced using solution technology, typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hottack properties. The resin does not contain slip or antiblock additive. SABIC® LLDPE 119NJ is TNPP free.

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

TYPICAL APPLICATIONS

Shipping sacks, ice bags, frozen food bags, stretch wrap film, produce bags, liners, carrier bags, garbage bags, agricultural films, laminated and coextruded films for meat wrap, frozen food and other food packaging, shrink film (for blending with LDPE), industrial consumer packaging, and high clarity film applications if blended with (10~20%) LDPE.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density			
Density ⁽¹⁾	0.919	g/cm ³	ASTM D792
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1	g/10 min	ASTM D1238
OPTICAL PROPERTIES ⁽²⁾			
Gloss			
Gloss (45°)	65	-	ASTM D2457
Haze ⁽²⁾	12	%	ASTM D1003
FILM PROPERTIES ⁽²⁾			
Dart Impact Strength			
Dart Drop Impact	100	g	ASTM D1709
Elmendorf Tear Strength			
Tear Strength, MD	100	g	ASTM D1922
Tear Strength, TD	250	g	ASTM D1922
Tensile test film			
2% secant modulus, MD	183	MPa	ASTM D882
2% secant modulus, TD	217	MPa	ASTM D882
Stress @ Yield, MD	13.8	MPa	ASTM D882
Stress @ Yield, TD	13.6	MPa	ASTM D882
Stress @ Break, MD	35	MPa	ASTM D882
Stress @ Break, TD	30	MPa	ASTM D882
Strain @ Break, MD	670	%	ASTM D882
Strain @ Break, TD	720	%	ASTM D882

(1) Base resin

(2) Fabrication Conditions are: Die Gap 70mil (1.8 mm), Melt Temperature 226C, output: 55 kg/hr, Die Diameter: 203mm, Blow-up Ratio: 2.5:1 and Frost Line Height: 71cm