

SABIC® LLDPE 118NJ

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 118NJ is a butene linear low density polyethylene resin typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hot tack properties. 118NJ is TNPP free and it does not contain slip and antiblock additive.

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	918	kg/m ³	ASTM D1505
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1.0	dg/min	ISO 1133
OPTICAL PROPERTIES⁽¹⁾			
Haze ⁽¹⁾	13	%	ASTM D1003
Gloss (45°)	50	%	ASTM D2457
FILM PROPERTIES⁽¹⁾			
Tear strength MD	40	kN/m	ISO 6383-2
Tensile test film			
Modulus of elasticity MD	160	MPa	ISO 527-3
Stress at break TD	30	MPa	ISO 527-3
Strain at break MD	700	%	ISO 527-3
Strain at break TD	850	%	ISO 527-3
Stress at break MD	37	MPa	ISO 527-3
Modulus of elasticity TD	180	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
Tear strength TD	120	kN/m	ISO 6383-2
Impact strength	22	kJ/m	ASTM D4272
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	100	°C	ISO 306
DSC test			
melting point	121	°C	SABIC method

⁽¹⁾ Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.