

SABIC® LLDPE 118NM

PROVISIONAL TECHNICAL DATA SHEET LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 118NM is a butane-1 linear low density polyethylene resin typically used for general purpose applications and also suitable for blending with conventional LDPE. Film made from LLDPE 118NM exhibit a good puncture resistance, high tensile strength and good hot tack properties. The resin does not contain slip or antistatic additive.

TYPICAL APPLICATIONS

Refuse sacks, 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	920	kg/m ³	ISO 1183
Melt Flow Rate (MFR) at 190 °C and 2.16 kg	0.9	g/10 min	ISO 1133
MECHANICAL PROPERTIES ⁽¹⁾			
Dart Impact Strength	150	g	ASTM D1709
Tensile strength at Yield, MD	11	MPa	ISO 527-3
at Yield, TD	12	MPa	ISO 527-3
Tensile Elongation at Break, MD	800	%	ISO 527-3
at Break, TD	900	%	ISO 527-3
OPTICAL PROPERTIES			
Haze	15	%	ISO 14782
Gloss @ 45°	50	-	ASTM D2457

(1) Properties have been measured by producing 38 µm film with 2:1 (BUR) using 100% 118NM.