

SABIC® LLDPE 218NK

LINEAR LOW DENSITY POLYETHYLENE (PROVISIONAL TECHNICAL DATA SHEET)

DESCRIPTION

SABIC® LLDPE 218NK is a butene linear low density polyethylene resin typically used for general purpose applications and also suitable for blending with conventional LDPE. Film made from LLDPE 218NK exhibit a good puncture resistance, high tensile strength and good hot tack properties. It doesn't contain slip and antiblocking additives.

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

Revision 20260622

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL ⁽¹⁾			
Density	0.918	g/cm ³	ASTM D792
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2	g/10 min	ASTM D1238
MECHANICAL PROPERTIES ⁽²⁾			
Tensile strength			
at Break, MD	36	MPa	ASTM D882
at Break, TD	25	MPa	ASTM D882
Tensile Elongation			
at Break, MD	620	%	ASTM D882
at Break, TD	770	%	ASTM D882
Dart Impact Strength	60	g	ASTM D1709
OPTICAL PROPERTIES			
Haze	12	%	ASTM D1003
FILM PROPERTIES			
Elmendorf Tear Strength			
MD	120	g	ASTM D1922
TD	340	g	ASTM D1922

(1) Base resin

(2) Properties have been measured by producing 25 µm film (Blow-Up Ratio : 2.5)

PROCESSING CONDITIONS

Typical processing conditions for 218NK are: Melt temperature: 195 - 215°C, Blow up ratio: 2.0 - 3.0

STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process polyethylene resin within 6 months after delivery.

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