

SABIC® LLDPE 218NF

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

218NF is a butene-1 copolymerized linear low density polyethylene intended for films, without anti-block and slip agent. It has excellent processing ability, good tensile properties, impact strength and optical properties.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Density	0.918	g/cm ³	ASTM D792
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 190°C & 2.16 kg load	2.0	g/10 min	ASTM D1238
MECHANICAL PROPERTIES			
Dart Impact Strength ^{(1) (2)}	77	g	ASTM D1709
OPTICAL PROPERTIES			
Haze ⁽¹⁾	13.8	%	ASTM D1003
*Gloss			
Gloss (45°) ⁽¹⁾	46.8	%	ASTM D2457
FILM PROPERTIES ⁽¹⁾			
Tear strength MD Elmendorf	6.6	g/μm	ASTM D1922
Tear strength TD Elmendorf	9.1	g/μm	ASTM D1922
Tensile test film ⁽¹⁾			
Strength at break, MD	38	MPa	ASTM D882
Strength at break, TD	35	MPa	ASTM D882
Elongation at break, MD	715	%	ASTM D882
Elongation at break, TD	751	%	ASTM D882
Secant modulus (1%), MD	283	MPa	ASTM D882
Secant modulus (1%), TD	330	MPa	ASTM D882
THERMAL PROPERTIES			
*Melting point	122	°C	SABIC method

(1) Properties have been measured by producing 30 μm 100% pure blown film with BUR 2.0.

(2) method A