SABIC® LLDPE BX1526

LINEAR LOW DENSITY POLYETHYLENE - PROVISIONAL DATASHEET

DESCRIPTION

BX1526 is hexene copolymer based Linear Low Density Polyethylene TNPP free grade suitable for high strength packaging applications. Films produced using this resin gives good toughness and stiffness balance, excellent puncture resistance, good sealing characteristics and tear resistance. BX1526 contains no slip and no antiblock additive.

TYPICAL APPLICATIONS

Lamination films, Ice and frozen food bags, agricultural films, stretch wrap films. Blending resin in multilayer blown and cast film. The grade can also be tested in MDO film application.

TYPICAL PROPERTY VALUES

Revision 20240103

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	931	kg/m³	ASTM D1505
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	2.1	g/10 min	ASTM D1238
MECHANICAL PROPERTIES			
Dart Impact Strength	64	g	ASTM D1709
Puncture Resistance	1.7	J	SABIC method
OPTICAL PROPERTIES			
Gloss			
at 60°	77	-	ASTM D2457
Haze (1)	20	%	ASTM D1003
FILM PROPERTIES			
Elmendorf Tear Strength			
MD	120	g	ASTM D1922
TD	305	g	ASTM D1922
Tensile Properties			
stress at break, MD	29	MPa	ASTM D882
stress at break, TD	26	MPa	ASTM D882
strain at break, MD	775	%	ASTM D882
strain at break, TD	870	%	ASTM D882
stress at yield, MD	14	MPa	ASTM D882
stress at yield, TD	15	MPa	ASTM D882
1% secant modulus, MD	307	MPa	ASTM D882
1% secant modulus, TD	372	MPa	ASTM D882
THERMAL PROPERTIES			
Vicat Softening Temperature	101	°C	ASTM D1525

(1) Properties have been measured by producing 32 µm blown film with 2.6 BUR using 100% BX1526 @ melt temperature 190-210 °C.

PROCESSING CONDITIONS

Typical processing conditions for BX1526 are:
Melt temperature: 190 - 220°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 PE resin within 6 months after delivery.

DISCLAIMER