

SABIC® LLDPE 6135NE

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 6135NE is a hexene linear low medium density polyethylene resin. Films made from this resin exhibit a good balance between mechanical properties (like impact strength, tear strength) and optical properties on the one hand and stiffness on the other hand. Typical applications for SABIC® LLDPE 6135NE are stand-up pouches, lamination films, surface protection film, MDO film and other applications requiring a balance between high impact strength, tear resistance and stiffness. The grade is typically used for multi-layer structures.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1.0	dg/min	ISO 1133
Density	936	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Dart Impact Strength	1.9	g/μm	ASTM D1709
OPTICAL PROPERTIES ⁽¹⁾			
Haze	22	%	ASTM D1003
FILM PROPERTIES ⁽¹⁾			
Tear strength MD Elmendorf	2	g/μm	ASTM D1922
Tear strength TD Elmendorf	22	g/μm	ASTM D1922
Tensile test film			
Strain at break TD	700	%	ASTM D882
Strain at break MD	605	%	ASTM D882
Stress at break TD	30	MPa	ASTM D882
Yield stress TD	19	MPa	ASTM D882
Yield stress MD	18	MPa	ASTM D882
Stress at break MD	57	MPa	ASTM D882
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	120	°C	ISO 306
DSC test			
melting point	126	°C	SABIC method

(1) Properties measured on blown film of 25 μm and BUR = 2.5