



# SABIC<sup>®</sup> LLDPE 430BE

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC<sup>®</sup> LLDPE 430BE is a butene linear low density polyethylene resin. The material, natural resin, is typically used for cast film applications, offering good mechanical properties, stiffness enhancement and furthermore enables to gain high line speeds. SABIC<sup>®</sup> LLDPE 430BE is provided with a dedicated anti oxidant package typically for cast film extrusion with low gel levels.

### Applications

Skin layers for non-cling stretch cast film, cast film side encapsulation, mid layer hygienic cast film and product to realize downgauging by stiffness enhancement.

### Film properties

Properties are determined on 20 µm cast stretch film produced on a 2 m commercial cast stretch line: melt temperature 270 °C, chill roll temperature 20 °C and line speed of 450 m/min.

### Processing conditions

SABIC<sup>®</sup> LLDPE 430BE is extrudable with conventional cast film extrusion equipment. Minor machine modifications may be required for optimum use. Cast film melt temperatures 250 - 300 °C.

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
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 190 °C and 2.16 kg	4.2	dg/min	ISO 1133
<b>Density</b>	930	kg/m <sup>3</sup>	ASTM D1505
<b>OPTICAL PROPERTIES</b>			
<b>Gloss (45°)</b>	91	%	ASTM D2457
<b>Haze</b>	2.4	%	ASTM D1003
<b>FILM PROPERTIES</b>			
<b>Dart impact</b>	1.5	kJ/m	ISO 7765-2
<b>Tear strength TD</b>	117	kN/m	ISO 6383-2
<b>Protrusion Puncture resistance</b>	0.5	J	ASTM D5748-95
<b>Elastic recovery &amp; Stress retention</b>			
Elastic recovery	45	%	ASTM D5459-95
Stress retention	78	%	ASTM D5459-95
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	109	°C	ISO 306
<b>DSC test</b>			
melting point	124	°C	SABIC method