

SABIC® LLDPE 430BE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® 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® LLDPE 430BE is provided with a dedicated anti oxidant package suitable 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.

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

General Information			
Additive	Antioxidation		
Features	Low density		
	Low speed solidification crystal point		
	Butene comonomer		
	Rigid, good		
	Antioxidation		
Uses	Stretch winding		
	cast film		
Appearance	Natural color		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Elastic Recovery - Cast Film (20.0 µm)	45	%	ASTM D5459
Protrusion Puncture Resistance - Cast Film (20.0 µm)	0.500	J	ASTM D5748
Stress Retention - Cast Film (20.0 µm)	78	%	ASTM D5459
Dart Impact - Cast Film (20.0 µm)	15.0	J/cm	ISO 7765-2
Tear Strength - TD ¹ (20.0 µm)	117.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	109	°C	ISO 306/A
Melting Temperature (DSC)	124	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 µm, Cast Film)	91		ASTM D2457
Haze (20.0 µm, Cast Film)	2.4	%	ASTM D1003

Additional Information	Nominal Value	Unit	Test Method
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.			
Extrusion	Nominal Value	Unit	
Melt Temperature	250 - 300	°C	
NOTE			
1.	Cast Film		

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Recommended distributors for this material

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