

SABIC® LLDPE 6318BE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 6318BE is a hexene linear low density polyethylene resin for cast film applications. The product has been specially formulated for optimum thermal stability at high temperatures used in cast film extrusion. Films produced from this grade exhibit good optical properties, toughness, puncture resistance and tear strength. The suffix E denotes European origin.

Application

SABIC® LLDPE 6318BE resin is typically used for pallet stretch wrap (pre-stretch), high performance draw down films and other mono layer and coextruded film applications where high strength is required. The grade is also suggested for blending with ethylene/butene copolymer LLDPE and LDPE for improving strength.

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

General Information			
Additive	Antioxidation		
Features	Low density		
	Optical		
	hexene comonomer		
	Perforation resistance		
	Antioxidation		
	Good tear strength		
	Thermal stability, good		
	Good toughness		
Uses	Mixing		
	Stretch winding		
	cast film		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Elastic Recovery - Cast Film (20.0 µm)	56	%	ASTM D5459
Protrusion Puncture Resistance - Cast Film (20.0 µm)	2.70	J	ASTM D5748
Retention Force - 60 sec (20.0 µm) ¹	950	g	
Stress Retention - Cast Film (20.0 µm)	78	%	ASTM D5459
Ultimate Pre-stretch Level - Cast Film (20.0 µm)	290	%	
Dart Impact - Cast Film (20.0 µm)	18.0	J/cm	ISO 7765-2

Peel Cling ²			ASTM D5458
0% pre-stretch : 20.0 μm	229.4	g/2.5 cm	ASTM D5458
200% pre-stretch : 20.0 μm	102.0	g/2.5 cm	ASTM D5458
Tear Strength - TD (20.0 μm) ³	246.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ISO 306/A
Melting Temperature (DSC)	125	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 μm, Cast Film)	90		ASTM D2457
Haze (20.0 μm, Cast Film)	1.8	%	ASTM D1003A
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 450 m/min.			
Extrusion	Nominal Value	Unit	
Melt Temperature	250 - 300	°C	
NOTE			
1.	Cast Film		
2.	Cast Film		
3.	Cast Film		

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