SABIC® LLDPE 6218BE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 6218BE 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. Cast films produced from SABIC® LLDPE 6218BE exhibit good optical properties, improved toughness, puncture resistance and tear strength. The suffix E denotes European origin.
Application
SABIC® LLDPE 6218BE resin is typcially 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/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	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)	1.90	J	ASTM D5748
Retention Force - 60 sec (20.0 µm) [1]	990	g	
Stress Retention - Cast Film (20.0 µm)	77	%	ASTM D5459
Ultimate Pre-stretch Level - Cast Film (20.0 µm)	260	%	
Dart Impact - Cast Film (20.0 µm)	27.0	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	76.5	g/2.5 cm	ASTM D5458
Tear Strength - TD (20.0 µm) [3]	272.0	kN/m	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	103	°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)	2.2	%	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 film line: melt temperature 270°C, chill roll temperature 20°C and a line speed of 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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