SABIC® LLDPE 218BJ

Linear Low Density Polyethylene

SABIC

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Technical Data

Product Description

SABIC® LLDPE 218BJ is a butene linear low density polyethylene resin with an additive package typically designed for a broader range of food applications (TNPP free). The good thermal stability allows to use the resin in critical extrusion processing conditions. Films produced from SABIC® LLDPE 218BJ have better draw-down ability compared to lower MFR LLDPE resins. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General

Material Status	• Commercial: Active		
Search for UL Yellow Card	• SABIC		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Food Packaging		

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	12.0	MPa	
Break	17.0	MPa	
Tensile Elongation			ASTM D638
Yield	16	%	
Break	790	%	
Flexural Modulus - 1% Secant	254	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Elastic Recovery [2] (30.0 µm)	53	%	ASTM D5459
Elmendorf Tear Strength - TD [2] (30.0 µm)	19	g/µm	ISO 6383-2
Protrusion Puncture Resistance [2] (30.0 µm)	2.20	J	ASTM D5748
Retention Force - at 60 sec	970	g	
Stress Retention [2] (30.0 µm)	80	%	ASTM D5459
Ultimate Pre-stretch Level	310	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	48		ISO 868
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	96.0	°C	ISO 306/A
Melting Temperature (DSC)	122	°C	Internal Method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	5.0E+15	ohms·cm	ASTM D257
Dielectric Strength [3]	55	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.17		ASTM D150
Dissipation Factor (60 Hz)	1000		ASTM D150
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss [2] (45°, 30.0 µm)	92		ASTM D2457
Haze [2] (30.0 µm)	1.20	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Dart Impact [2] (30.0 µm)	28.0	J/cm	ISO 7765-2
Peel Cling [2]			ASTM D5458
0% Pre-stretch : 30.0 µm	153.0	g/2.5 cm	
200% Pre-stretch : 30.0 µm	127.5	g/2.5 cm	

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Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.5 BUR using 100% 218BJ

[3] 500 V/sec

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Where to Buy

Supplier

SABIC
Web: http://www.sabic.com/

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.
Telephone: +86-20-3466-7988
Web: http://3polymer.com
Availability: China

AECTRA
Telephone: +33-4-72-54-36-42
Web: https://www.aectra.fr/
Availability: France

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Telephone: +351-22753-7400
Web: https://www.agi.pt/en/
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Web: https://www.guzmanglobal.com/en/productos/plastics/
Availability: Italy, Spain, Turkey

Plastoplan
Telephone: +43-1-25040-0
Web: https://www.plastoplan.com/
Availability: Czech Republic, Poland, Slovakia

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