

SABIC® LLDPE 518N

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 518N is a butene linear low density polyethylene resin. Films produced from this resin have high toughness, good puncture resistance, good heat sealing behaviour and excellent machinability on conversion lines.

Application

Typical applications for SABIC® LLDPE 518N are heavy duty shipping sacks, ice bags, frozen food bags, potato bags and agriculture films.

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

General Information			
Additive	Antioxidation		
Features	Low density		
	Butene comonomer		
	Perforation resistance		
	Antioxidation		
	Machinable		
	Good heat sealability		
Uses	Good toughness		
	Blown Film		
	Bags		
	Agricultural application		
Processing Method	Heavy packing bag		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	170	MPa	ISO 527-3
TD: 50 µm, blown film	180	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	40.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	32.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	550	%	ISO 527-3

TD: Broken, 50 µm, blown film	800	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown Film (50.0 µm)	270	J/cm	ASTM D4272
Puncture Resistance - Blown Film (50.0 µm)	750	J/m	Internal method
Tear Strength ¹			ISO 6383-2
MD : 50.0 µm	30.0	kN/m	ISO 6383-2
TD : 50.0 µm	180.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ISO 306/A
Melting Temperature (DSC)	120	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	55		ASTM D2457
Haze (50.0 µm, Blown Film)	13	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method
Film of 50 µm and BUR=2 has been produced on Kiefel IBC with 130 kg/h. Die size 200 mm, die gap 2,7 mm.			
NOTE			

1. Blown Film

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

