

# SABIC® LLDPE 6821N

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 6821N is a linear low density polyethylene product. It can be processed by blowing film and is available in Europe. SABIC® The application fields of LLDPE 6821N include packaging, bag/lining, wrapping, film and agriculture.

Features include:

high strength

Antioxidants

accessible food

Good stiffness

Good tear strength

General Information			
Additive	Antioxidation		
Features	Rigid, good		
	High tensile strength		
	Antioxidation		
	Impact resistance, good		
	Good tear strength		
Uses	Compliance of Food Exposure		
	Packaging		
	Films		
	Laminate		
	Stretch winding		
	Agricultural application		
	Food packaging		
Forms	Heavy packing bag		
	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	ASTM D882
secant modulus			
MD : 30 µm	210	MPa	ASTM D882
TD : 30 µm	230	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 30 µm	12.0	MPa	ASTM D882

TD: Yield, 30 µm	13.0	MPa	ASTM D882
MD: Break, 30 µm	55.0	MPa	ASTM D882
TD: Break, 30 µm	40.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	600	%	ASTM D882
TD: Break, 30 µm	730	%	ASTM D882
Dart Drop Impact (30 µm, Blown Film)	160	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 30 µm	300	g	ASTM D1922
TD : 30 µm	920	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 30.0 µm, Blown Film)	70		ASTM D2457
Haze (30.0 µm, Blown Film)	11	%	ASTM D1003
Additional Information			
30µm blown film produced with a blow up ratio of 1:2.5.Puncture Resistance, SABIC Method, 30µm, Blown Film: 70 J/mm			
Extrusion	Nominal Value	Unit	
Melt Temperature	225	°C	
Extrusion instructions			

Blow-up ratio: 2:1 to 3:1

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#### Recommended distributors for this material

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