

# SABIC® LLDPE 6821W

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® LLDPE 6821W 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 6821W include packaging, bag/lining, wrapping, film and agriculture.

Features include:

- Antiblock software
- high strength
- slide
- Antioxidants
- accessible food

General Information			
Additive	Anti-caking agent		
	Antioxidation		
	slip agent		
Features	Rigid, good		
	High tensile strength		
	smoothness		
	Anti-caking property		
	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		
	Blow film		
	Processing Method		
	Physical		
	Nominal Value	Unit	Test Method
	Density	0.921	g/cm <sup>3</sup> ISO 1183/A
Films	Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)		
	Nominal Value	Unit	Test Method
	0.80	g/10 min	ASTM D1238
	Film Thickness - Tested		
	Nominal Value	Unit	Test Method
	30	µm	

secant modulus			ASTM D882
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.The film properties are measured on a similar grade without slip agent, antiblock and processing aid (PPA).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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