

SABIC® LLDPE 6821N

Linear Low Density Polyethylene

SABIC Americas, Inc.

Message:

Product Description

6821N is fractional melt index hexene copolymer based Linear Low Density Polyethylene grade suitable for high strength packaging applications. Films produced using these resins gives outstanding toughness, excellent puncture resistance, good sealing characteristics and tear resistance.

Typical Applications

Heavy duty shipping sacks, lamination films, Ice & frozen food bags, agricultural films, stretch wrap films etc.

General Information			
Features	Copolymer		
	Good Impact Resistance		
	High Stiffness		
	High Tensile Strength		
Uses	Bags		
	Film		
	Laminates		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
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			
1% Secant, MD : 30 µm	280	MPa	
1% Secant, TD : 30 µm	300	MPa	ASTM D882
Tensile Strength			
MD : Yield,30 µm	12.0	MPa	
TD : Yield,30 µm	13.0	MPa	
MD : Break, 30 µm	48.0	MPa	
TD : Break, 30 µm	40.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 30 µm	680	%	
TD : Break, 30 µm	850	%	
Dart Drop Impact (30 µm)	150	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922

MD : 30 μm	350	g	
TD : 30 μm	550	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	101	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 μm)	80		ASTM D2457
Haze (30.0 μm)	12	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Puncture Resistance (30.0 μm)	890	J/cm	Internal Method
Extrusion	Nominal Value	Unit	
Melt Temperature	205 to 220	°C	

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