



# 6821N

Linear Low Density Polyethylene for Blown Film

## 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.

## Typical data

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	0.8	D 1238
Density @ 23°C	kg/m <sup>3</sup>	921	D 1505
<b>Mechanical Properties<sup>(2)</sup></b>			
Tensile Strength @ break, MD	MPa	48	
TD		40	D 882
Tensile Elongation @ break, MD	%	680	
TD		850	D 882
Tensile Strength @ yield, MD	MPa	12	
TD		13	D 882
1% Secant Modulus, MD	MPa	280	
TD		300	D 882
Puncture Resistance	J/mm	89	SABIC Method
Dart Impact Strength	g	150	D 1709
Elmendorf Tear Strength, MD	g	350	
TD		550	D 1922
<b>Optical Properties<sup>(2)</sup></b>			
Haze	%	12	D 1003
Gloss @ 60°	-	80	D 2457
<b>Thermal Properties</b>			
Vicat Softening Point	°C	101	D 1525

(1) Typical values; not to be construed as specification limits.

(2) Properties have been measured by producing 30 µ film with 2.5 BUR using 100% 6821N.

## Processing Conditions

Typical processing conditions for 6821N are:

Melt temperature: 205 - 220°C

Blow up ratio: 2 - 3