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