



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 Density @ 23°C	g/10 min. kg/m³	0.8 921	D 1238 D 1505
Mechanical Properties ⁽²⁾			
Tensile Strength @ break, MD TD	MPa	48 40	D 882
Tensile Elongation @ break, MD TD	%	680 850	D 882
Tensile Strength @ yield, MD TD	MPa	12 13	D 882
1% Secant Modulus, MD TD	MPa	280 300	D 882
Puncture Resistance	J/mm	89	SABIC Method
Dart Impact Strength	g	150	D 1709
Elmendorf Tear Strength, MD TD	g	350 550	D 1922
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.

Processing Conditions

Typical processing conditions for 6821N are:

Melt temperature: 205 - 220°C Blow up ratio: 2 - 3

022009

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

Food Regulation

6821N is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

Storage and Handling

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

Saudi Basic Industries Corporation, P.O.Box 5101, Riyadh 11422, Kingdom of Saudi Arabia

Tel: 966 1 2258000 Fax: 966 1 2259000 Technical Marketing Tel: 966 1 2659166 Fax: 966 1 2653544

Toll-free 800 1245577

PE Sales:

Fax: 966 1 2258760 Website: www.sabic.com

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any immunity against infringement.