

SABIC 6821N Linear Low Density Polyethylene for Blown Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

Material Notes:

Product Description: 6821N is a fractional melt index hexene copolymer based Linear Low Density Polyethylene grade suitable for high strength packaging applications. Films produced using this resin yield 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. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-6821N-Linear-Low-Density-Polyethylene-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	load density; ASTM D1505
Thickness	30.0 microns	1.18 mil	
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.0 MPa	1740 psi	ASTM D882
Film Tensile Strength at Yield, TD	13.0 MPa	1890 psi	ASTM D882
Film Elongation at Break, MD	680 %	680 %	ASTM D882
Film Elongation at Break, TD	850 %	850 %	ASTM D882
Elmendorf Tear Strength MD	350 g	350 g	ASTM D1922
Elmendorf Tear Strength TD	550 g	550 g	ASTM D1922
Elmendorf Tear Strength, MD	11.67 g/micron	296.4 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	18.33 g/micron	465.6 g/mil	ASTM D1922
Dart Drop Total Energy	890 J/cm	1.67 ft-lb/mil	Puncture Resistance; SABIC Method
Dart Drop	5.00 g/micron	127 g/mil	ASTM D1709
Dart Drop Test	150 g	0.331 lb	ASTM D1709
Film Tensile Strength at Break, MD	48.0 MPa	6960 psi	ASTM D882
Film Tensile Strength at Break, TD	40.0 MPa	5800 psi	ASTM D882
1% Secant Modulus, MD	280 MPa	40600 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Vicat Softening Point	101 °C	214 °F	ASTM D1525
Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Gloss	80 %	80 %	at 45°; ASTM D2457
Processing Properties	Metric	English	Comments
Melt Temperature	205 - 220 °C	401 - 428 °F	
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	

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