



# LLDPE BICSOL LL118BN

## Hexene Linear Low Density Polyethylene

### Technical Data Sheet

**BICSOL LL118BN** resin is a pelletized linear low density polyethylene selected by customers for applications that require maximum strength and toughness. This product offers excellent additive homogeneity, requires no transfer equipment modification, and facilitates clean and safe handling. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging. LL118BN offers enhanced film strength, drawdown, toughness and heat seal strength. In addition, this resin has excellent low temperature resistance for applications such as stretch film and frozen food packaging.

**Processing Method :** Blown Film, Sheet and Profile Extrusion

**Application:** Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film

**Additives:** None

Property	Nominal Values	English Units	Nominal Values	SI Units	Test Method
Melt Flow Rate (190°C, 2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Base Resin Density, (23°C)	0.918	g/cm <sup>3</sup>	0.918	g/cm <sup>3</sup>	ASTM D792
Product Density, (23°C)	0.918	g/cm <sup>3</sup>	0.918	g/cm <sup>3</sup>	ASTM D792
Tensile Strength at Break MD	7540	Psi	52	MPa	ASTM D882
Tensile Strength at Break TD	6530	Psi	45	MPa	ASTM D882
Tensile Elongation at Break MD	710	%	710	%	ASTM D882
Tensile Elongation at Break TD	750	%	750	%	ASTM D882
Elmendorf Tear Strength MD	525	g	525	g	ASTM D1922
Elmendorf Tear Strength TD	720	g	720	g	ASTM D1922
Dart Drop Impact Strength (F <sub>50</sub> )	200	g	200	g	ASTM 1709
1% Secant Modulus MD	34800	Psi	240	MPa	ASTM D882
1% Secant Modulus TD	42000	Psi	290	MPa	ASTM D882
Optical Haze	16	%	16	%	ASTM D2457

**Notes:**

\*The specifications listed are based on representative samples and not the actual product shipped.

\*Typical properties: these are not to be construed as specifications.