

## Linear Low Density Polyethylene LL5801N

### Description:

The LL5801N resin is a Linear Low Density Polyethylene, produced by solution process, for blown film extrusion with excellent mechanical properties.

### Application:

Laminating and specialties made of high strength films.

### Additive:

Slip  
Antiblocking  
Processing Aid

### Process:

Blown film e extrusion

### Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	1.0
Density	D 792	g/cm <sup>3</sup>	0.918

### Typical Properties:

Blow Film Properties<sup>b</sup>

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	40/25
Elongation at Break (MD/TD)	D 882	%	1010/1140
Flexural Modulus – 1% Secant (MD/TD)	D 882	MPa	165/180
Dart Drop Impact	D 1709	g/F50	215
Elmendorf Tear Strength (MD/TD)	D 1922	gF	340/1100
Haze	D 1003	%	8
Gloss - Angle 60°	D 2457	-	82

(a) 40 µm Film Gauge, obtained in 40 mm extruder with blow up ratio of 2,2:1 . (MD: Machine direction; TD: Transversal direction).

### Recommended Processing Conditions:

The LL5801N resin should be processed on specific extruders for LLDPE. The optimum processing conditions will change according to the type of equipment used, but the best results are obtained at a melt temperature within the range of 200 to 220°C and blends with maximum ratio of 30% LLDPE. Recommended blow up ratio: 1.8 to 3.0:1.

### Final Remarks:

- This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.
- These information reflect typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
- In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 26221-73-8.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.
- Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
- The content of this Data Sheet replaces previous revisions published for this product.
- This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.