

## Linear Low Density Polyethylene LL218/21

### Description:

LL218/21 is a LLDPE that was specially designed to provide outstanding processing performance. Films obtained with this grade show good physical and optical properties and enhanced sealability.

### Additive:

Antiblocking Medium  
Slip Medium

### Applications:

Liners; LDPE and HDPE blends; general use packages; technical films for automatic packaging.

### Process:

Blown Film Extrusion

### Control Properties:

	ASTM Method	Unit	Value
Melt Flow Rate (190/2.160)	D 1238	g/10 min	2.0
Density	D 792	g/cm <sup>3</sup>	0.917

### Properties:

Blow Film Properties<sup>a</sup>

	ASTM Methods	Units	Values
Ultimate Strength (MD/TD)	D 882	MPa	30/30
Elongation at Break (MD/TD)	D 882	%	1140/1440
Flexural Modulus – 1% Secant	D 882	MPa	200/200
Dart Drop Impact	D 1709	g/F50	100
Elmendorf Tear Strength (MD/TD)	D 1922	gF	60/800
Haze	D 1003	%	18
Gloss - Angle 60°	D 2457	-	80

(a) 38 µm thickness film, processed in a 40 mm screw diameter extruder with blow up ratio of 2,2:1 (MD = Machine Direction; TD = Transversal Direction)

### Final Remarks

1. 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.
2. 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.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. 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.
8. The content of this Data Sheet replaces previous revisions published for this product.
9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.