Linear Low Density Polyethylene LL5800N

Description:
LL5800N resin is a Linear Low Density Polyethylene for blown film extrusion with excellent mechanical properties. It contains processing aid and antioxidant additives.

Applications:
Heavy-duty bags; stretch; liners, LDPE and HDPE blends; packages for general use.

Additive:
Processing Aid

Process:
LL5800N resin should be processed on specific extruders for LLDPE. The optimum processing conditions will vary according to the type of equipment used, but the best results are obtained at a melt temperature within the range of 200 to 220º and blends with LDPE with a maximum ratio of 30%. Recommended blow up ratio: 1.8 to 3:1.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	1.0
Density	D 792	g/cm3	0.918

Typical Properties:
Blown Film Properties[a]

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	45/40
Elongation at Break (MD/TD)	D 882	%	1310/1380
Flexural Modulus – 1% Secant	D 882	MPa	170/210
Dart Drop Impact	D 1709	g/F50	475
Elmendorf Tear Strength (MD/TD)	D 1922	gF	1000/2880
Haze	D 1003	%	14
Gloss - Angle 60°	D 2457	-	100

(a) 100 µm Film Gauge, obtained in 40 mm extruder, with 2:1 BUR. die gap 1.0 mm, (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. The information presented in this Data Sheet reflects 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: 26221-73-8.
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.