Braskem

Data Sheet

# 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).