

## Low Density Polyethylene F2523

**Description:**

Good sealing characteristics, optical and mechanical properties. It contains antiblock and slip additives.

**Application:**

General purpose packaging that require good optical and mechanical properties.  
Recommended film thickness: 0.020-0.100mm.

**Process:**

Blown Film Extrusion

**Control Properties:**

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	2.5
Density	D 792	g/cm <sup>3</sup>	0.923

**Typical Properties:**

Blow Film Properties<sup>a</sup>

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	30/20
Elongation at Break (MD/TD)	D 882	%	230/930
Dart Drop Impact	D 1709	g/F50	60
Elmendorf Tear Strength (MD/TD)	D 1922	gF	ND <sup>b</sup> /110
Haze	D 1003	%	6
Gloss - Angle 60°	D 2457	%	110

(a) 25 µm Film Gauge, obtained in 40 mm extruder with blow up ratio of 2,2:1 . (MD: Machine direction; TD: Transversal direction).

(b) ND: Not Determined.

**Recommended Processing Conditions:**

Recommended processing conditions for Blow Film Extrusion:

- Temperature profile: 120 to 170°C
- Blow up ratio: 1.8 to 3.0:1

The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

**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 Technical Assistance.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 009002-88-4
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. Braskem polyolefin products do not have additives with metals or other substances on purpose of oxi-degradation. These additives and the decomposition and disintegration of polyolefins caused by oxi-degradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of Anvisa Resolution 105/99. The use of these additives with Braskem polyolefin products implies immediate loss of performance guarantee described in this data sheet.
9. The content of this Data Sheet replaces previous revisions published for this product.
10. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.