

## Linear Low Density Polyethylene FLEXUS7200XP

### Description

Braskem Flexus7200XP is a Linear Low Density Polyethylene, metallocene ethylene-hexene copolymer. It was specially designed to provide outstanding processing performance. Films obtained with this grade show excellent mechanical and optical properties. It contains antioxidant additives.

### Applications

Stretch films

### Process

Recommended processing conditions for film extrusion about 220 - 270 °C. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

### Control Properties

	ASTM Method	Unit	Value
Melt Flow Rate (190°C/2.16Kg)	D 1238	g/10 min	3,5
Density	D 1505	g/cm <sup>3</sup>	0,918

### Properties:

	ASTM Method	Unit	Value
Ultimate Strength (MD/TD) (a)	D 882	MPa	40/30
Elongation at Break (MD/TD) (a)	D 882	%	990/1040
Tensile Modulus – 1% Secant (a)	D 882	MPa	180/190
Dart Drop Impact (a)	D 1709	g/F50	170
Elmendorf Tear Strength (MD/TD) (a)	D 1922	gF	250/460
Highlight - Ultimate Test (1)(2)	D 4649	%	380
Highlight – Puncture (1)(2)(3)	D 4649	Kg	3,2
Highlight – Retention Maximum Force (1)(2)(3)	D 4649	Kg	4,1
Highlight – Retention Ending Force (1)(2)(3)	D 4649	Kg	2,5
Highlight – Retention Loss (1)(2)(3)	D 4649	%	30
Highlight – Cling (1)(2)(3)	D 4649	g	16
Haze (1)(2)	D 882	%	1,8
Transmittance (1)(2)	D 882	%	93,8
Gloss - Angle 60° (1)(2)	D 2457	%	149

(a) 25 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)

(1) 23µm thickness film, processed in a 3 layer coextruder

(2) Formulation: 75%Flexus7200XP + 25% LLDPE Octene

(3) Highlight tested at 320%

### 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.
- 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.
- 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 Technical Assistance.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. Cas Registry number: 25213-02-9.
- 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.