

## Linear Low Density Polyethylene HF2208S3

### Description:

The HF2208S3 resin is a linear low density polyethylene, developed for blown film extrusion with good mechanical properties.

### Applications:

High-performance technical films for automatic packaging of liquids and solids, co-extrusion and general uses

### Additive:

Antioxidant  
Slip  
Anti-blocking  
Processing Aid

### Process:

The HF2208S3 needs to be processed in blown film extruder. The optimum processing conditions are obtained with extrusion temperature between 200 to 220°C blended with 30% of low density polyethylene.

### Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.75
Density	D 792	g/cm <sup>3</sup>	0.922

### Typical Properties:

#### Blow Film Properties<sup>b</sup>

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	45/30
Elongation at Break (MD/TD)	D 882	%	950/1150
Tensile Modulus – 1% Secant (MD/TD)	D 882	MPa	210/240
Dart Drop Impact	D 1709	g/F50	200
Elmendorf Tear Strength (MD/TD)	D 1922	gF	150/840
Haze	D 1003	%	11
Gloss 45°	D 2457	-	70

(a) 40 µm thickness film, processed in a 70 mm 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: 25213-02-9.
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.