

Low Density Polyethylene SBF0323/12HC

Description:

SBF0323/12HC is a high molecular weight LDPE produced under high pressure technology. Films obtained with this product show outstanding optical properties, excellent mechanical properties, and good shrinkage.

The minimum biobased content of this grade is 95%, determined according to ASTM D6866.

Additive:

Slip Medium. Antiblock Medium.

Applications:

Automatic packaging of solid and liquid products; shrink films for pallets.

Process:

Blown Film Extrusion.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.32
Density	D 792	g/cm ³	0.923

Typical Properties:

Blown Film Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	40/30
Elongation at Break (MD/TD)	D 882	%	390/1040
Dart Drop Impact	D 1709	g/F50	100
Elmendorf Tear Strength (MD/TD)	D 1922	gF	ND ^b /100
Haze	D 1003	%	11
Gloss - Angle 60°	D 2457	%	83

(a) 38µm thickness film, processed in a 75 mm screw diameter extruder with blow up ratio of 2:1 , die gap 1.0 mm, (MD = Machine Direction; TD = Transversal Direction). (b) ND: Not Determined.

Recommended Processing Conditions:

Blown Film Extrusion

- Extruder:

Screw- relation L/D.....16 to 30:1

Compression Ration.....3 to 4:1

- Screw Package (Mesh)...40/60/40

- Temperature Profile:

1st zone.....110°C

Extruder.....180°C

Die.....190°C

-Blow up ratio.....from 2 to 3:1

-Frostline Height.....maximum equivalent to bubble diameter

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. 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.