

Low Density Polyethylene F2022/0

Description:

Excellent sealing characteristics and optical properties with well balanced mechanical properties.

Application:

General purpose which require no additives; shrink films for goods; flat film for diapers and injection blow molding. Recommended film thickness: 0.025-0.100mm.

Process:

Cast Film Extrusion

Control Properties:

| | ASTM Methods | Units | Values |
|---------------------------|--------------|----------|--------|
| Melt Flow Rate (190/2.16) | D 1238 | g/10 min | 2.0 |
| Density | D 792 | g/cm3 | 0.922 |

Typical Properties:

Blow Film Properties^a

| | ASTM Methods | Units | Values |
|-----------------------------------|--------------|-------|---------|
| Tensile Strength at Break (MD/TD) | D 882 | MPa | 40/20 |
| Elongation at Break (MD/TD) | D 882 | % | 230/900 |
| Dart Drop Impact | D 1709 | g/F50 | 70 |
| Elmendorf Tear Strength (MD/TD) | D 1922 | gF | NDb/90 |
| Haze | D 1003 | % | 8 |
| Gloss - Angle 60° | D 2457 | % | 93 |

(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:

1) Blow Film Extrusion

- Temperature profile: 120 to 170°C.

- Blow up ratio: 1.8 to 3.0:1

2) Blow Molding

- Temperature profile: 180 to 310°C. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

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.
- 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.
- 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: 009002-88-4.
- 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.