

High Density Polyethylene HD3000S

Description:

HD3000S is a High Density Polyethylene, ideal for cast film extrusion. It offers high processability and stiffness.

Applications:

Cast film extrusion for diapers; hygienic absorbers and other specialties.

Additives:

It contains fenol free antioxidant additive

Process:

Cast film extrusion.

Control Properties:

| | ASTM Methods | Units | Values |
|---------------------------|--------------|-------------------|--------|
| Melt Flow Rate (190/2.16) | D 1238 | g/10 min | 7.2 |
| Density | D 792 | g/cm ³ | 0.959 |

Typical Properties:

Blown film Properties^a

| | ASTM Methods | Units | Values |
|--------------------------------------|--------------|-------|---------|
| Tensile Strength at Break (MD/TD) | D 882 | MPa | 25/20 |
| Elongation at Break (MD/TD) | D 882 | % | 730/350 |
| Flexural Modulus – 1% Secant (MD/TD) | D 882 | MPa | 750/820 |
| Elmendorf Tear Strength (MD/TD) | D 1922 | gF | 5/10 |
| Haze | D 1003 | % | 50 |
| Gloss - Angle 60° | D 2457 | % | 48 |
| Gloss - Angle 60° | D 2457 | % | 52 |

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

Recommended Processing Conditions:

The HD3000S is indicated for the processing in plain die extruding machine in conditions that are similar to the other types of High-Density Polyethylene, of equivalent melt index and density. Recommended temperature range: 250 to 290 °C.

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. 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.
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: 9002-88-4.
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.

