


**Technical Data Sheet**  
 Revision 02 (December/17)

## High Density Polyethylene HDE0960

**Description:**

The resin HDE0960 is a high density polyethylene homopolymer with a narrow molecular weight distribution primarily intended for the extrusion of monofilaments and as component in multilayer films having water vapor barrier.

**Applications:**

Extrusion of high tenacity monofilaments and tapes, film for grains packaging, injection molding, blow molding for food packaging, component in multilayer films having water vapor barrier.

**Process:**

Extrusion of monofilaments.  
 Extrusion of film.

**Control Properties:**

|                               | Test Methods | Units             | Values |
|-------------------------------|--------------|-------------------|--------|
| Melt Flow Rate (190°C/2.16Kg) | ASTM D1238   | g/10 min          | 0.900  |
| Density                       | ASTM D792    | g/cm <sup>3</sup> | 0.960  |

**Typical Properties<sup>1</sup>:**

|                                                           | Test Methods | Units | Values     |
|-----------------------------------------------------------|--------------|-------|------------|
| Tensile Strength at Yield MD/TD <sup>2</sup>              | ASTM D882    | MPa   | 29 / 29    |
| Tensile Strength at Break MD/TD                           | ASTM D882    | MPa   | 32 / 38    |
| Elongation at Yield MD/TD                                 | ASTM D882    | %     | 12 / 11    |
| Elongation at Break MD/TD                                 | ASTM D882    | %     | 742 / 845  |
| Elastic Modulus (1% Secant) MD/TD                         | ASTM D882    | MPa   | 991 / 1008 |
| Melting point (DSC 2 <sup>nd</sup> heating)               | ASTM D3417   | °C    | 134        |
| Elmendorft tear strength MD/TD                            | ASTM D1922   | gf    | 55 / 100   |
| Apparent dynamic viscosity (190°C and 60s <sup>-1</sup> ) | ASTM D3835   | Pa·s  | 2200       |

<sup>1</sup> Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 3.5:1.

<sup>2</sup> MD: Machine direction, TD: Transversal direction.

**Final Observations:**

- The information in this document is provided in good faith and reflects typical values obtained in our laboratories and should not be considered as absolute nor warranted. Only the properties and values mentioned on the Certificate of Quality are considered as product warranty.
- In some applications, Braskem IDESA has developed resins well-tailored to meet specific requirements.
- In case of doubts regarding our product use or for other applications, please contact our Braskem IDESA technical services [serviciotecnico@braskem.com](mailto:serviciotecnico@braskem.com)
- For information about safety, handling, individual protection equipment, first aid and disposal, consult the Safety Data Sheet (SDS) or please contact our Braskem IDESA safety team [safety@braskem.com](mailto:safety@braskem.com). CAS Number: 9002-88-4.
- The values reported in this document may change without Braskem IDESA previous communication.
- Braskem IDESA does not recommend the use of this product for the manufacture of packages, parts or any other product used for storage or contact with parenteral solution nor with the inside of the human body.
- This resin does not contain the substance Bisphenol A (BPA, CAS#80-05-7) in its composition.
- The content of this Product Data Sheet replaces the one issued previously.