

# HP500P

## Homopolymer

**Description:**

HP500P is a polypropylene homopolymer with good flow properties for injection molding and compounding applications. This grade offers medium-high fluidity, easy mold filling and short cycle times. The final items molded with HP500P exhibit good dimensional stability and high stiffness. The product is well suited for the production of thin-walled articles and articles with long flow paths. HP500P is also an excellent polymer base for compounding and masterbatches. HP500P is suitable for food contact.

**Typical Applications**

- Thin-walled articles
- Containers
- Boxes
- Toys
- Household articles
- Closures and caps
- Polymer base for compounding and masterbatches

**Features:** Easy mold filling and short cycle times, Good dimensional stability, High stiffness

**Suitable for:** Injection molding and Compounding applications

**Product Specification**

| PHYSICAL/MECHANICAL PROPERTIES           | VALUE* | UNIT              | TEST METHOD |
|--|--------|-------------------|-------------|
| Melt Flow Rate (230 °C, 2.16 kg)         | 17     | g/10 min          | ASTM D1238  |
| Density                                  | 0.9    | g/cm <sup>3</sup> | ASTM D1505  |
| Flexural Modulus                         | 1550   | MPa               | ASTM D790   |
| Tensile Strength at Yield                | 33     | MPa               | ASTM D638   |
| Tensile Elongation at Yield              | 12     | %                 | ASTM D638   |
| Izod Impact Strength (notched) at 23 °C  | 30     | J/m               | ASTM D256   |
| Rockwell Hardness                        | 103    | R Scale           | ASTM D785   |
| Vicat softening point (10 N)             | 154    | °C                | ASTM D1525  |
| H.D.T. (0.46 MPa)                        | 95     | °C                | ASTM D648   |
| Accelerated oven ageing in air at 150 °C | 360    | h                 | ASTM D3012  |

\* Typical values; not to be considered as product specification.