

## Technical Data Sheet

### *Moplen* HP500D



Polypropylene, Homopolymer

#### Product Description

*Moplen* HP500D is a high molecular weight polypropylene homopolymer resin, with good stiffness, good heat resistance, low sagging, low yellowness, low odor, and excellent chemical resistance. Typical customer applications are extrusion of sheets, profiles and non-pressure pipes, as well as for trays and containers, for food or electronic components.

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| <b>Application</b>       | Containers; General Sheet Extrusion; Thermoformed Food Containers |
| <b>Market</b>            | Consumer Products; Rigid Packaging                                |
| <b>Processing Method</b> | Sheet; Sheet and Profile Extrusion; Thermoforming                 |
| <b>Attribute</b>         | High Molecular Weight; High Stiffness; Homopolymer                |

| Typical Properties                    | Nominal Value | Units             | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                       |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)      | 0.5           | g/10 min          | ASTM D1238  |
| Density                               | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                     |               |                   |             |
| Flexural Modulus                      | 1560          | MPa               | ASTM D790   |
| Tensile Strength at Yield             | 35            | MPa               | ASTM D638   |
| Tensile Elongation at Yield           | 12            | %                 | ASTM D638   |
| <b>Impact</b>                         |               |                   |             |
| Notched Izod Impact Strength, (23 °C) | 104           | J/m               | ASTM D256   |
| <b>Thermal</b>                        |               |                   |             |
| Deflection Temperature Under Load     | 103           | °C                | ASTM D648   |