

## Technical Data Sheet

### Moplen HP500S



Polypropylene, Homopolymer

#### Product Description

Moplen HP500S is a polypropylene homopolymer.

Moplen HP500S is suitable for injection moulding applications and can be used in technical compounds as Homo building block with a good fluidity.

It is supplied in pelletized form.

Market                      Compounding

| Typical Properties                        | Nominal Value | Units             | Test Method   |
|-------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                           |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)          | 40            | g/10 min          | ISO 1133-1    |
| Density                                   | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                         |               |                   |               |
| Flexural Modulus                          | 1600          | MPa               | ISO 178       |
| Tensile Modulus                           | 1700          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield, (23 °C)          | 37            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C)          | 8             | %                 | ISO 527-1, -2 |
| <b>Impact</b>                             |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C) | 3             | kJ/m <sup>2</sup> | ISO 179-1/1eA |
| <b>Thermal</b>                            |               |                   |               |
| Vicat Softening Temperature, (A50)        | 150           | °C                | ISO 306       |