



## Moplen HP500N

### Polypropylene, Homopolymer

#### Product Description

Moplen HP500N is a homopolymer used for general purpose injection moulding applications. It exhibits good flow and stiffness.

Moplen HP500N is suitable for food contact.

#### Product Characteristics

|                         |  |
|-------------------------|--|
| <b>Status</b>           | Commercial: Active                       |
| <b>Test Method used</b> | ISO                                      |
| <b>Availability</b>     | Europe, Asia-Pacific, Africa-Middle East |

| Typical Properties  | Method        | Value | Unit                   |
|---|---------------|-------|------------------------|
| <b>Physical</b>   |               |       |                        |
| Density   | ISO 1183      | 0.9   | g/cm <sup>3</sup>      |
| Melt flow rate (MFR) (230°C/2.16Kg)                               | ISO 1133      | 12    | g/10 min               |
| Melt volume flow rate (230°C/2.16Kg)                              | ISO 1133      | 16    | cm <sup>3</sup> /10min |
| <b>Mechanical</b>   |               |       |                        |
| Tensile Modulus   | ISO 527-1, -2 | 1550  | MPa                    |
| Tensile Stress at Yield   | ISO 527-1, -2 | 35    | MPa                    |
| Tensile Strain at Break   | ISO 527-1, -2 | > 50  | %                      |
| Tensile Strain At Yield   | ISO 527-1, -2 | 10    | %                      |
| <b>Impact</b>   |               |       |                        |
| Charpy unnotched impact strength<br>(23 °C)                       | ISO 179       | 110   | kJ/m <sup>2</sup>      |
| (0 °C)  |               | 30    | kJ/m <sup>2</sup>      |
| Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A) | ISO 179       | 3     | kJ/m <sup>2</sup>      |
| <b>Thermal</b>  |               |       |                        |
| Heat deflection temperature B (0.45 MPa), Unannealed              | ISO 75B-1, -2 | 95    | °C                     |
| Vicat softening temperature A/50                                  | ISO 306       | 153   | °C                     |
| Vicat softening temperature B/50                                  | ISO 306       | 85    | °C                     |

#### Notes

Typical properties; not to be construed as specifications.

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Users should review the applicable Material Safety Data Sheet before handling the product.

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