

## Technical Data Sheet

### *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.

#### Regulatory Status

For regulatory compliance information, see *Moplen* HP500N [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <b>Status</b>            | Commercial: Active                              |
| <b>Availability</b>      | Africa-Middle East; Asia-Pacific; Europe        |
| <b>Application</b>       | Furniture; Housewares                           |
| <b>Market</b>            | Compounding; Consumer Products; Rigid Packaging |
| <b>Processing Method</b> | Compounding; Injection Blow Molding             |
| <b>Attribute</b>         | Medium Flow; Medium Stiffness                   |

| Typical Properties                                                   | Nominal Value | Units             | Test Method   |
|----------------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                                      |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                                     | 12            | g/10 min          | ISO 1133-1    |
| Density                                                              | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                                    |               |                   |               |
| Tensile Modulus                                                      | 1400          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                                              | 35            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                                              | > 50          | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                                              | 10            | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                                        |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 4             | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>                                                       |               |                   |               |
| Vicat Softening Temperature                                          |               |                   |               |
| (A/50 N)                                                             | 153           | °C                | ISO 306       |
| (B50)                                                                | 85            | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed)                | 95            | °C                | ISO 75B-1, -2 |

## Notes

ISO properties above are typical values of LYB products from Europe.

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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