

## Moplen HP500N

### PP HOMO

LyondellBasell Industries

| Processing/Physical Characteristics | Value | Unit    | Test Standard |
|-------------------------------------|-------|---------|---------------|
| <b>ASTM Data</b>                    |       |         |               |
| Melt Flow Index                     | 12    | g/10min | ASTM D 1238   |
| Temperature                         | 230   | °C      | -             |
| Load                                | 2.16  | kg      | -             |
| Density, 73°F                       | 900   | kg/m³   | ASTM D 792    |

| Rheological properties | Value | Unit    | Test Standard |
|------------------------|-------|---------|---------------|
| <b>ISO Data</b>        |       |         |               |
| Melt Flow Index, MFI   | 12    | g/10min | ISO 1133      |
| MFI temperature        | 230   | °C      | -             |
| MFI load               | 2.16  | kg      | -             |

| Mechanical Properties                   | Value | Unit  | Test Standard |
|-----------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                         |       |       |               |
| Tensile Modulus                         | 1400  | MPa   | ISO 527       |
| Yield stress                            | 35    | MPa   | ISO 527       |
| Yield strain                            | 10    | %     | ISO 527       |
| Strain at Break                         | >50   | %     | ISO 527       |
| Notched Impact Strength (Charpy), +23°C | 4     | kJ/m² | ISO 179/1eA   |
| <b>ASTM Data</b>                        |       |       |               |
| Tensile Strength at Yield               | 34    | MPa   | ASTM D 638    |
| Elongation at Yield                     | 10    | %     | ASTM D 638    |
| Flexural Modulus                        | 1480  | MPa   | ASTM D 790    |
| Notched Impact Strength (Izod), 1/8 in  | 25    | J/m   | ASTM D 256    |

| Thermal Properties                        | Value | Unit | Test Standard |
|-------------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                           |       |      |               |
| Temp. of deflection under load (0.45 MPa) | 95    | °C   | ISO 75-1/-2   |
| Vicat softening temperature A             | 153   | °C   | ISO 306       |
| Vicat softening temperature, 50°C/h 50N   | 85    | °C   | ISO 306       |
| <b>ASTM Data</b>                          |       |      |               |
| DTUL @ 66 psi                             | 97    | °C   | ASTM D 648    |

| Other Properties | Value | Unit  | Test Standard |
|------------------|-------|-------|---------------|
| <b>ISO Data</b>  |       |       |               |
| Density          | 900   | kg/m³ | ISO 1183      |

## Characteristics

### Processing

Injection Molding, Blow Molding

### Certifications

Food approval

### Features

Homopolymer

### Applications

General Purpose, Packaging

## Disclaimer

### Liability Exclusion

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