# *Moplen* HP565K

**Polypropylene, Homopolymer**

## Product Description

LyondellBasell Australia's Polypropylene grade HP565K is a medium flow homopolymer with a modified molecular weight distribution and is formulated with an enhanced process stability additive package. HP565K has been developed for the manufacture of high tenacity wearing tapes, ropes and twines.

## Product Characteristics

| | |
|---|---|
| **Status** | Commercial: Active |
| **Test Method used** | ISO |
| **Availability** | Asia-Pacific, Australia/NZ |
| **Features** | Medium Flow, Homopolymer |
| **Typical Customer Applications** | Raffia/Tapes/Strapping |

| Typical Properties | Method | Value | Unit |
|---|---|---|---|
| **Physical** | | | |
| Density (Method D) | ISO 1183 | 0.90 | g/cm³ |
| Melt flow rate (MFR) (230°C/2.16Kg) | ISO 1133 | 3.5 | g/10 min |
| **Mechanical** | | | |
| Tensile Stress at Yield | ISO 527-1, -2 | 31.0 | MPa |
| Flexural modulus | ISO 178 | 1400 | MPa |
| **Impact** | | | |
| Notched izod impact strength (23 °C, Type 1, Notch A) | ISO 180 | 3.5 | kJ/m² |
| **Hardness** | | | |
| Shore hardness (Shore D) | ISO 868 | 73 | |
| **Thermal** | | | |
| Heat deflection temperature B (0.45 MPa) Unannealed | ISO 75B-1, -2 | 75 | °C |
| Heat deflection temperature A (1.80 MPa) Unannealed | ISO 75A-1, -2 | 51 | °C |
| Vicat softening temperature (Method A) | ISO 306 | 155 | °C |

## Additional Properties

Suitable for the production of articles for food contact use. As supplied in natural form, meets the requirements of Australian Standard 2070 - 1999, "Plastics Materials for Food Contact Use". The base polymer complies with the United States of America Food and Drug Administration (FDA) Code of Federal Regulations 21 CFR177.1520 (a)(1) and (c)1.1. All other components used in the formulation meet the relevant FDA requirements for use in food contact applications. Conformity with these requirements should not be assumed for other variants and should be investigated with the appropriate supply source.

## Notes

Typical properties; not to be construed as specifications.