

## Technical Data Sheet

### *Moplen* HP401H

Polypropylene, Homopolymer



#### Product Description

LyondellBasell Australia's polypropylene grade *Moplen* HP401H is a low flow homopolymer with a conventional molecular weight distribution and is formulated with a general purpose additive package. *Moplen* HP401H is designed principally for the production of sheet for subsequent forming operations into packaging containers.

#### Regulatory Status

For regulatory compliance information, see *Moplen* HP401H [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

|                   |                                                             |
|-------------------|-------------------------------------------------------------|
| Status            | Commercial: Active                                          |
| Availability      | Asia-Pacific; Australia and New Zealand                     |
| Application       | Thermoformed Food Containers                                |
| Market            | Industrial Packaging; Rigid Packaging                       |
| Processing Method | Extrusion Blow Molding; Thermoforming                       |
| Attribute         | Good Impact Resistance; Good Processability; Good Stiffness |

| Typical Properties                                    | Nominal Value | Units             | Test Method   |
|-------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                       |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 2.2           | g/10 min          | ISO 1133-1    |
| Density, (23 °C, Method D)                            | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                     |               |                   |               |
| Flexural Modulus                                      | 1450          | MPa               | ISO 178       |
| Tensile Stress at Yield                               | 33            | MPa               | ISO 527-1, -2 |
| <b>Impact</b>                                         |               |                   |               |
| Notched Izod Impact Strength, (23 °C)                 | 6.0           | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>Hardness</b>                                       |               |                   |               |
| Shore Hardness, (Shore D)                             | 74            |                   | ISO 868       |
| <b>Thermal</b>                                        |               |                   |               |
| Vicat Softening Temperature                           | 155           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 91            | °C                | ISO 75B-1, -2 |

#### Notes

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