

## Technical Data Sheet

### *Moplen* HE745T



Polypropylene, Homopolymer

#### Product Description

LyondellBasell Australia's Polypropylene grade *Moplen* HE745T is a high flow, impact enhanced, nucleated homopolymer. *Moplen* HE745T is impact modified, with very low organoleptic properties and is targeted at thin wall injection moulding applications.

|                          |                                                                              |
|--------------------------|------------------------------------------------------------------------------|
| <b>Application</b>       | Containers; TWIM Food Containers                                             |
| <b>Market</b>            | Rigid Packaging                                                              |
| <b>Processing Method</b> | Injection Molding                                                            |
| <b>Attribute</b>         | Fast Cycle (Production); Good Moldability; High Flow; Homopolymer; Nucleated |

| Typical Properties                                    | Nominal Value | Units             | Test Method   |
|-------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                       |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 65            | 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                                      | 1800          | MPa               | ISO 178       |
| Tensile Stress at Yield                               | 36            | MPa               | ISO 527-1, -2 |
| <b>Impact</b>                                         |               |                   |               |
| Notched Izod Impact Strength, (23 °C)                 | 2.5           | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>Hardness</b>                                       |               |                   |               |
| Shore Hardness, (Shore D)                             | 75            |                   | ISO 868       |
| <b>Thermal</b>                                        |               |                   |               |
| Vicat Softening Temperature                           | 150           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 100           | °C                | ISO 75B-1, -2 |