

## Technical Data Sheet

**Moplen HP553R**

Polypropylene, Homopolymer

**Product Description**

High flow polypropylene homopolymer resin.

**Regulatory Status**For regulatory compliance information, see *Moplen HP553R* [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                  |
| <b>Availability</b>      | Africa-Middle East; Asia-Pacific; Australia and New Zealand         |
| <b>Application</b>       | Filament Yarn; Opaque Containers                                    |
| <b>Market</b>            | Consumer Products; Rigid Packaging; Textile                         |
| <b>Processing Method</b> | Continuous Filament/Spinning; Injection Molding; Staple Fiber       |
| <b>Attribute</b>         | Gas-fading Resistant; Good Processability; Homopolymer; Medium Flow |

| Typical Properties                    | Nominal Value | Units             | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                       |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)      | 22            | g/10 min          | ASTM D1238  |
| Density                               | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                     |               |                   |             |
| Flexural Modulus                      | 1500          | MPa               | ASTM D790   |
| Tensile Strength at Yield             | 34            | MPa               | ASTM D638   |
| Tensile Elongation at Yield           | 10            | %                 | ASTM D638   |
| <b>Impact</b>                         |               |                   |             |
| Notched Izod Impact Strength, (23 °C) | 20            | J/m               | ASTM D256   |
| <b>Thermal</b>                        |               |                   |             |
| Deflection Temperature Under Load     | 98            | °C                | ASTM D648   |

**Notes**

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

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

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- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
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- (ii) applications involving permanent implantation into the body;
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