

# Moplen HP564R

Polypropylene Homopolymer

LyondellBasell Industries

## Message:

LyondellBasell Australia's Polypropylene grade HP564R is a high flow homopolymer. HP564R has been designed for the production of fine to medium denier fibres and has the exceptional colour stability required for such textile applications. It is known that certain stabilisers in polypropylene can react with the spinning lubricants used when the fibres are processed. This may cause a light-fugitive discolouration of the fibres. HP564R contains additives that minimise the risk of discolouration reactions of this nature, however it is recommended that trials are progressed to establish suitability for each specific process. HP564R also contains a HALS UV stabilisation additive.

| General Information                                |                      |                   |             |
|----------------------------------------------------|----------------------|-------------------|-------------|
| Additive                                           | UV Stabilizer        |                   |             |
| Features                                           | Good Color Stability |                   |             |
|                                                    | Good UV Resistance   |                   |             |
|                                                    | High Flow            |                   |             |
|                                                    | Homopolymer          |                   |             |
| Uses                                               | Staple Fibers        |                   |             |
| Forms                                              | Pellets              |                   |             |
| Physical                                           | Nominal Value        | Unit              | Test Method |
| Density                                            | 0.900                | g/cm <sup>3</sup> | ISO 1183/D  |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)          | 25                   | g/10 min          | ISO 1133    |
| Hardness                                           | Nominal Value        | Unit              | Test Method |
| Shore Hardness (Shore D)                           | 71                   |                   | ISO 868     |
| Mechanical                                         | Nominal Value        | Unit              | Test Method |
| Tensile Stress (Yield)                             | 30.0                 | MPa               | ISO 527-2   |
| Flexural Modulus                                   | 1500                 | MPa               | ISO 178     |
| Impact                                             | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)                | 1.6                  | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                            | Nominal Value        | Unit              | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 70.0                 | °C                | ISO 75-2/B  |

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