

Technical Data Sheet

Moplen HP564R

Polypropylene, Homopolymer

**Product Description**

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.

Regulatory Status

For regulatory compliance information, see *Moplen HP564R* [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; Australia and New Zealand
Application	Bulk Continuous Filament & Continuous Filament
Market	Textile
Processing Method	Staple Fiber
Attribute	Good Color Stability; Good UV Resistance; High Flow; Homopolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	25	g/10 min	ISO 1133-1
Density, (23 °C, Method D)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1350	MPa	ISO 178
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Impact			
Notched Izod Impact Strength, (23 °C)	2	kJ/m ²	ISO 180/1A
Hardness			
Shore Hardness, (Shore D)	75		ISO 868
Thermal			
Vicat Softening Temperature	152	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	75	°C	ISO 75B-1, -2

Notes

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

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Recipient Tracking #:
Request #: 907474

Company Information

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

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Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (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;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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