



Moplen HP462R

Polypropylene, Homopolymer

Product Description

Moplen HP462R is used in extrusion applications. It has a very narrow molecular weight distribution and it is formulated with an anti-gasfading stabilisation package. Moplen HP462R is used in the production of continuous filaments. Typical applications are high-tenacity yarns (HTY) and spunbond nonwovens. For regulatory information please refer to Moplen HP462R Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Africa-Middle East
Processing Methods	Continuous Filament/Spinning, Spun Bond
Features	Homopolymer, Narrow Molecular Weight Distribution
Typical Customer Applications	Filament Yarn, Nonwoven Spunbond

Typical Properties	Method	Value	Unit
Physical			
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	25	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	20	N/mm ²
Tensile Stress at Yield	ISO 527-1, -2	33	N/mm ²
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
Flexural modulus	ISO 178	1300	N/mm ²
Impact			
Charpy unnotched impact strength	ISO 179	140	kJ/m ²
Charpy notched impact strength	ISO 179	4	kJ/m ²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	86	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	153	°C
(B50 (50°C/h 50N))		93	°C

Notes

Typical properties; not to be construed as specifications.

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LyondellBasell markets this product through the following entities:

- Equistar Chemicals, LP
- Basell Sales & Marketing Company B.V.
- Basell Asia Pacific Limited
- Basell International Trading FZE
- LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyb.com/>.

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This product(s) may not be used in:

- any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or
- the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) 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; (4) tobacco related

products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications.

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

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

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