

## Moplen HP456H

### Polypropylene, Homopolymer

#### Product Description

Moplen HP456H is used in extrusion and thermoforming applications. It is formulated with a low water-carry-over additive package. Typical applications are strapping, monofilaments and tapes. For regulatory information please refer to Moplen HP456H Product Stewardship Bulletin (PSB).

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
<b>Processing Methods</b>	Tapes & Raffia
<b>Features</b>	Homopolymer
<b>Typical Customer Applications</b>	Raffia/Tapes/Strapping

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	1.8	g/10 min
<b>Mechanical</b>			
Tensile Stress at Break	ISO 527-1, -2	25	N/mm <sup>2</sup>
Tensile Stress at Yield	ISO 527-1, -2	34	N/mm <sup>2</sup>
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
Flexural modulus	ISO 178	1400	N/mm <sup>2</sup>
<b>Impact</b>			
Charpy unnotched impact strength	ISO 179	240	kJ/m <sup>2</sup>
Charpy notched impact strength	ISO 179	11	kJ/m <sup>2</sup>
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°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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- 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:

(i) 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

(ii) 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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