

Technical Data Sheet

Moplen HP422H

Polypropylene, Homopolymer



Product Description

Moplen HP422H is a modified polypropylene homopolymer designed for the production of BOPP films at very high speed. BOPP films produced with HP422H feature good mechanical properties, excellent barrier against moisture, odours, oxygen, good transparency and gloss. Coextruded films made of *Moplen* HP422H are widely used in the food packaging industry. *Moplen* HP422H does not contain any slip or antistatic agents and no Calcium Stearate is intentionally added.

Regulatory Status

For regulatory compliance information, see *Moplen* HP422H [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Barrier Film; Food Packaging Film
Market	Flexible Packaging
Processing Method	BOPP
Attribute	High Clarity; High Gloss; Homopolymer; Low to No Odor; Moisture Barrier

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2.0	g/10 min	ISO 1133-1
Density	0.900	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1450	N/mm ²	ISO 178
Tensile Stress at Yield, (23 °C, 50 mm/min)	34	N/mm ²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	410	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	10	%	ISO 527-1, -2
Hardness			
Shore Hardness, (Shore D)	70		ISO 868
Thermal			
Vicat Softening Temperature, (A50)	152	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	88	°C	ISO 75B-1, -2
Optical			
Haze	0.50	%	ASTM D1003

Notes

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

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Recipient Tracking #:
Request #: 907439

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

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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