

Technical Data Sheet

Moplen HP450J



Polypropylene, Homopolymer

Product Description

Moplen HP450J is a polypropylene homopolymer with good processability and stretchability. Typical customer applications include yarn and raffia.

Regulatory Status

For regulatory compliance information, see Moplen HP450J [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand
Application	Filament Yarn; Raffia/Tapes/Strapping; Stationery Film
Market	Consumer Products; Flexible Packaging; Textile
Processing Method	Blown Film; Sheet; Tapes & Raffia
Attribute	Good Processability; Good Strength; Good Stretchability; Homopolymer

Typical Properties	Nominal		Test Method
	Value	Units	
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	3.3	g/10 min	ASTM D1238
Density	0.90	g/cm ³	ASTM D792
Mechanical			
Flexural Modulus	1550	MPa	ASTM D790
Tensile Strength at Yield	37	MPa	ASTM D638
Tensile Elongation at Yield	11	%	ASTM D638
Impact			
Notched Izod Impact Strength, (23 °C)	40	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	110		ASTM D785
Thermal			
Deflection Temperature Under Load, (0.46 N/mm ²)	104	°C	ASTM D648

Notes

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

Company Information

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

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- (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.

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- (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.

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