Technical Data Sheet

Moplen HP500D

Polypropylene, Homopolymer

Product Description

Moplen HP500D is a high molecular weight polypropylene homopolymer resin, with good stiffness, good heat resistance, low sagging, low yellowness, low odor, and excellent chemical resistance. Typical customer applications are extrusion of sheets, profiles and non-pressure pipes, as well as for trays and containers, for food or electronic components.

Regulatory Status

For regulatory compliance information, see *Moplen* HP500D Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand
Application	Containers; General Sheet Extrusion; Thermoformed Food Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Sheet; Sheet and Profile Extrusion; Thermoforming
Attribute	High Molecular Weight; High Stiffness; Homopolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.5	g/10 min	ASTM D1238
Density	0.90	g/cm³	ASTM D792
Mechanical			
Flexural Modulus	1560	MPa	ASTM D790
Tensile Strength at Yield	35	MPa	ASTM D638
Tensile Elongation at Yield	12	%	ASTM D638
Impact			
Notched Izod Impact Strength, (23 °C)	104	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load	103	°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/.

© LyondellBasell Industries Holdings, B.V. 2026

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.